DMX REFERENCE

Fuze Teatro

Elation



Manufacturer	Elation
GDTF file	Elation_Fuze_Teatro_79291.gdtf
GDTF revision	24-25-11 Release · 2024-11-25
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1 About this manual

This document describes the Fuze Teatro by Elation. It was compiled from the GDTF file Elation_Fuze_Teatro_79291.gdtf from the GDTF-Share library.

File revision: “24-25-11 Release”.

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 Elation; 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	36 kg

DMX modes

Mode	Channels	Units in one universe	First start addresses
Std Pan540	42	12	1, 43, 85, 127, ...
Ext Pan540	61	8	1, 62, 123, 184, ...
RGB Pan540	40	12	1, 41, 81, 121, ...
RGB Ext Pan540	57	8	1, 58, 115, 172, ...
CMY Pan540	40	12	1, 41, 81, 121, ...
CMY Ext Pan540	57	8	1, 58, 115, 172, ...
Std Pan630	42	12	1, 43, 85, 127, ...
Ext Pan630	61	8	1, 62, 123, 184, ...
RGB Pan630	40	12	1, 41, 81, 121, ...
RGB Ext Pan630	57	8	1, 58, 115, 172, ...
CMY Pan630	40	12	1, 41, 81, 121, ...
CMY Ext Pan630	57	8	1, 58, 115, 172, ...


Read the manual before use


Do not stare into the light


Indoor use only

3 Safety instructions



Read the manual before use



Do not stare into the light



Indoor use only

⚠ WARNING

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

⚠ WARNING

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

⚠ CAUTION

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

⚠ CAUTION

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

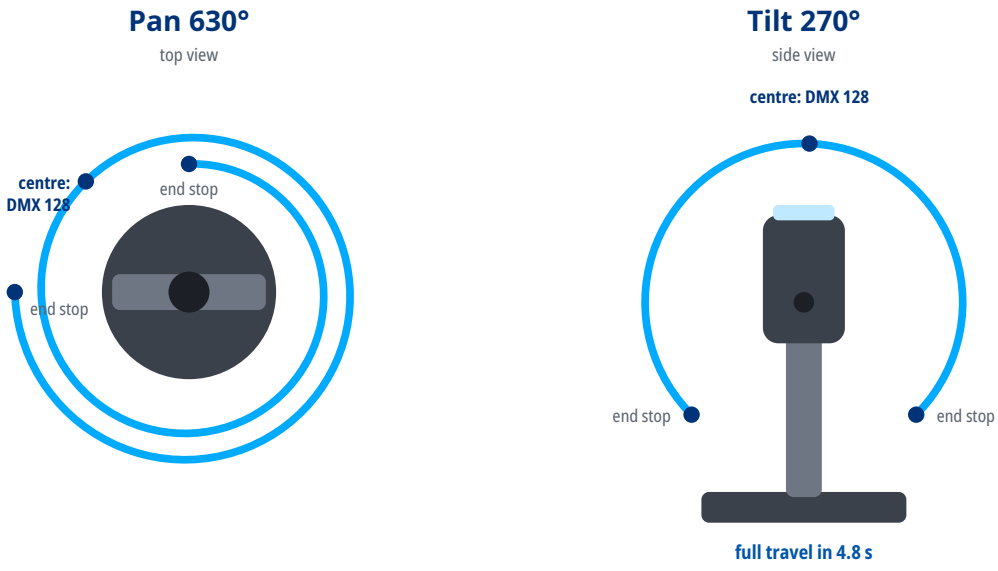
> ⚠ **WARNING**
>
> - The moving parts of the device (for example the head or arms) can move quickly and unexpectedly at any time – after power-on, during a reset, or on a command from the controller.
> - Keep yourself and any objects out of the range of movement. While the device is switched on, do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

4 Product description

Description in the GDTF file

“The FUZE TEATRO™ is a silent fanless full spectrum automated LED framing fixture designed for theater, television and a wide array of other precision lighting applications. The 92 CRI engine utilizes an 480W 5-color homogenized LED array consisting of Red, Green, Blue, Mint, and Amber sources. The carefully tuned LEDs ensure accurate color reproduction and dynamic whites while delivering a powerful output of up to 15,000 lumens. Virtual color temperature, Magenta / Green adjustment plus CMY or RGB emulation provide the designer with immediate access to the impressive LED color array.”

Range of movement



Full-travel times as stated in the GDTF file.

5 Installation

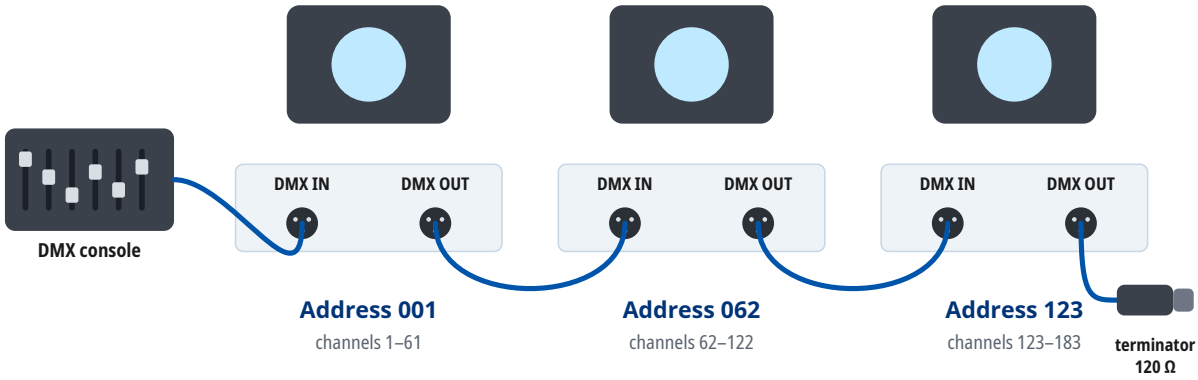
⚠ **WARNING**

- 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: 36 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 Ext Pan540: every unit occupies 61 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 “Ext Pan540”: 61.
- 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 “Ext Pan540”, you can use, for example, the start addresses 1, 62, 123, 184.
- 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

	Std Pan540 42 channels	Ext Pan540 61 channels	RGB Pan540 40 channels	RGB Ext Pan540 57 channels	CMY Pan540 40 channels	CMY Ext Pan540 57 channels	Std Pan630 42 channels	Ext Pan630 61 channels
Pan / Tilt	1, 3	1, 3	1, 3	1, 3	1, 3	1, 3	1, 3	1, 3
Dimmer	25	33	23	29	23	29	25	33
Shutter / strobe	24	32	22	28	22	28	24	32
Color mixing	5–9	5× (5–13)	5–7	5, 7, 9	5–7	5, 7, 9	5–9	5× (5–13)
Color temperature	10	15	8	11	8	11	10	15
Color wheel	11	18	9	14	9	14	11	18
Gobo wheel	12, 13, 15, 16	19, 20, 22, 23	10, 11, 13, 14	15, 16, 18, 19	10, 11, 13, 14	15, 16, 18, 19	12, 13, 15, 16	19, 20, 22, 23
Gobo rotation	12, 13, 15, 16	19, 20, 22, 23	10, 11, 13, 14	15, 16, 18, 19	10, 11, 13, 14	15, 16, 18, 19	12, 13, 15, 16	19, 20, 22, 23
Prism	18, 19	25, 26	16, 17	21, 22	16, 17	21, 22	18, 19	25, 26
Frost	29, 30	38, 39	27, 28	34, 35	27, 28	34, 35	29, 30	38, 39
Zoom	22	30	20	26	20	26	22	30
Focus	21	28	19	24	19	24	21	28
Iris	28	36	26	32	26	32	28	36
Animation wheel	31, 32	40, 41	29, 30	36, 37	29, 30	36, 37	31, 32	40, 41

Color wheel

1 Pale Yellow DMX 1
2 Straw DMX 2
3 Gold Tint DMX 3
4 Spring Yellow DMX 4
5 Medium Yellow DMX 5
6 Yellow DMX 6
7 Deep Amber DMX 7
8 Deep Straw DMX 8
9 Loving Amber DMX 9
10 Gold Amber DMX 10
11 Orange DMX 11
12 Deep Orange DMX 12
13 Dark Amber DMX 13
14 Millennium Gold DMX 14
15 Deep Golden Amber DMX 15
16 Scarlet DMX 16
17 Primary Red DMX 17
18 Bright Red DMX 18
19 Medium Red DMX 19
20 Fire DMX 20
21 Pink DMX 21
22 Medium Pink DMX 22
23 Dark Pink DMX 23
24 Bright Pink DMX 24

25 Bright Rose **DMX 25**

26 Special Rose Pink **DMX 26**

27 Vanity Fair **DMX 27**

28 Magenta **DMX 28**

29 Dark Magenta **DMX 29**

30 Rose Purple **DMX 30**

31 Mauve **DMX 31**

32 Medium Purple **DMX 32**

33 Lavender **DMX 33**

34 Palace blue **DMX 34**

35 Dark Blue **DMX 35**

36 Medium Blue **DMX 36**

37 Deep Blue **DMX 37**

38 Daylight Blue **DMX 38**

39 Slate Blue **DMX 39**

40 Light Blue **DMX 40**

41 Sky Blue **DMX 41**

42 Pale Navy Blue **DMX 42**

43 Marine Blue **DMX 43**

44 Peacock Blue **DMX 44**

45 Lagoon Blue **DMX 45**

46 Medium Blue Green **DMX 46**

47 Dark Yellow Green **DMX 47**

48 Primary Green **DMX 48**

49 Fern Green **DMX 49**

50 Moss Green **DMX 50**

51 Dark Green **DMX 51**

52 Lime Green **DMX 52**

53 Pale Green **DMX 53**

54 Quarter CT Blue **DMX 54**

55 Half CT Blue **DMX 55**

56 Full CT Blue **DMX 56**

57 Double CT Blue **DMX 57**

58 Quarter CT Orange **DMX 58**

59 Half CT Orange **DMX 59**

60 LEE 204 - Full C T Orange **DMX 60–61**

61 Open **DMX 0–1**

Gobo wheel 1

1
Gobo: Open
DMX 0–9

2 
Rotating Gobo 1
DMX 10–19

3 
Rotating Gobo 2
DMX 20–29

4 
Rotating Gobo 3
DMX 30–39

5 
Rotating Gobo 4
DMX 40–49

6 
Rotating Gobo 5
DMX 50–59

7 
Gobo 6
DMX 60–70

Gobo wheel 2

1
Gobo: Open
DMX 0–9

2 
Gobo 1
DMX 10–19

3 
Gobo 2
DMX 20–29

4 
Gobo 3
DMX 30–39

5 
Gobo 4
DMX 40–49

6 
Gobo 5
DMX 50–59

7 
Gobo 6
DMX 60–70

Prism

1
Open
DMX 0–5

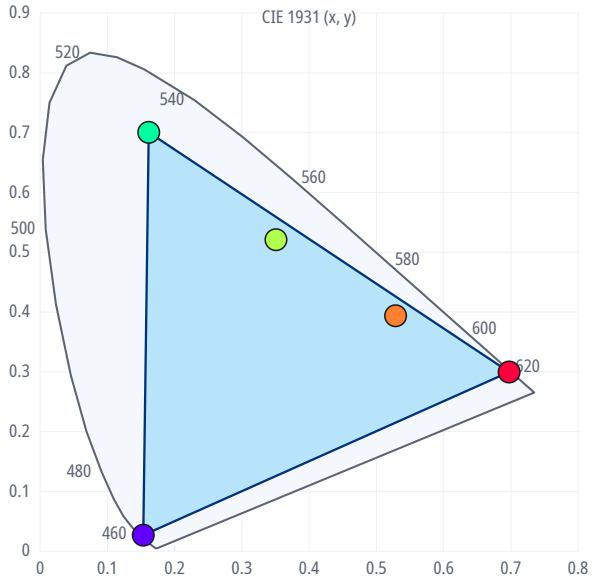
2 
4 facets
Prism 1
DMX 6–31

3 
4 facets
Prism 2
DMX 32–127

Animation wheel

1 
Animation Min to Max
DMX 8–255

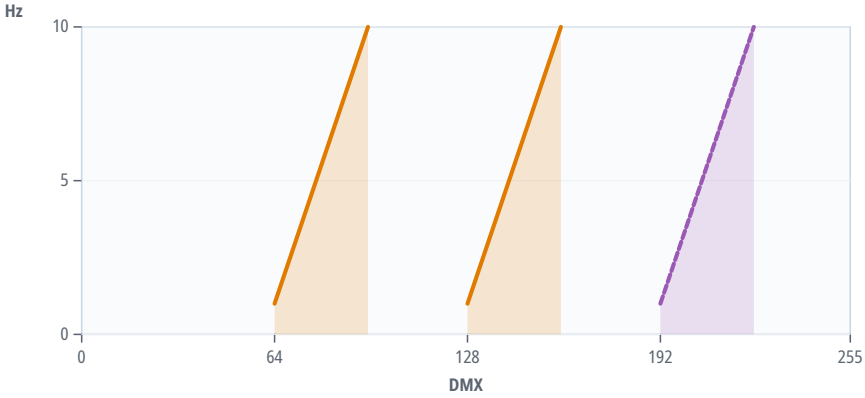
LED colors and the colors they mix



LED	x	y
Red	0.697	0.300
Green	0.161	0.701
Blue	0.153	0.027
Mint	0.351	0.521
Amber	0.528	0.394

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

Strobe rate



CH 32 · Ext Pan540

64–95: 1–10 Hz
Strobe Effect Slow to Fast

128–159: 1–10 Hz
Pulse-Effect in Sequences

192–223: 1–10 Hz
Random Strobe Effect Slow to Fast

9 DMX channels

Units in one DMX universe



Start addresses of 20 units in the mode “Ext Pan540”

Unit	Start address	Unit	Start address	Unit	Start address	Unit	Start address
1	1	6	306	11	U2 · 123	16	U2 · 428
2	62	7	367	12	U2 · 184	17	U3 · 1
3	123	8	428	13	U2 · 245	18	U3 · 62
4	184	9	U2 · 1	14	U2 · 306	19	U3 · 123
5	245	10	U2 · 62	15	U2 · 367	20	U3 · 184

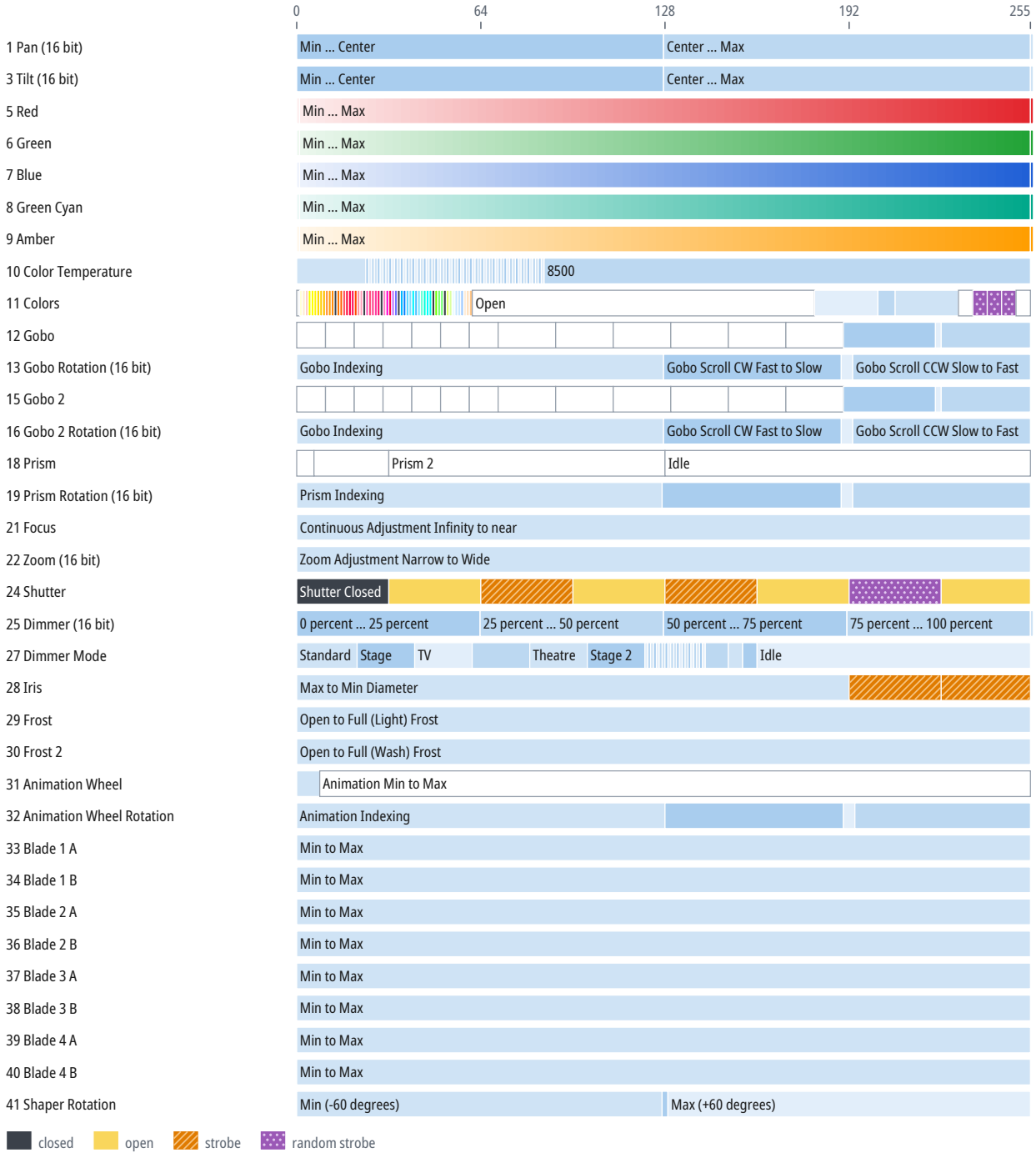
Where a DMX universe is full, the next units continue in the next universe: “U2 · 1” is address 1 in the second universe, counted from the universe of the first unit.

Mode Std Pan540

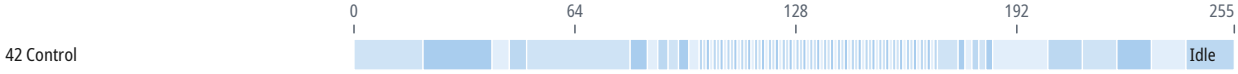
16-bit parameters use two channels, coarse and fine: value = 256 × coarse value + fine value.

The GDTF file gives these values for a console's Highlight function: CH 5 Red 255, CH 6 Green 255, CH 7 Blue 255, CH 8 Green Cyan 255, CH 9 Amber 255, CH 11 Colors 0, CH 24 Shutter 47, CH 25 Dimmer 255.

Channel functions at a glance



Channel functions at a glance



CH	Function	DMX	Description
1	Pan	0–127	Min ... Center
		128–255	Center ... Max
		255	Max
2	Pan Fine	0–255	Fine adjustment of CH 1
3	Tilt	0–127	Min ... Center
		128–255	Center ... Max
		255	Max
4	Tilt Fine	0–255	Fine adjustment of CH 3
5	Red	0	Min
		1–254	Min ... Max
		255	Max
6	Green	0	Min
		1–254	Min ... Max
		255	Max
7	Blue	0	Min
		1–254	Min ... Max
		255	Max
8	Green Cyan	0	Min
		1–254	Min ... Max
		255	Max
9	Amber	0	Min
		1–254	Min ... Max
		255	Max
10	Color Temperature	0–23	Open(6000 K): Open
		24	2400
		25	2500
		26	2600
		27	2700
		28	2800
		29	2900
		30	3000
		31	3100
		32	3200
		33	3300
		34	3400
		35	3500
		36	3600

CH	Function	DMX	Description
10	Color Temperature (continued)	37	3700
		38	3800
		39	3900
		40	4000
		41	4100
		42	4200
		43	4300
		44	4400
		45	4500
		46	4600
		47	4700
		48	4800
		49	4900
		50	5000
		51	5100
		52	5200
		53	5300
		54	5400
		55	5500
		56	5600
		57	5700
		58	5800
		59	5900
		60	6000
		61	6100
		62	6200
		63	6300
		64	6400
		65	6500
		66	6600
		67	6700
		68	6800
		69	6900
		70	7000
		71	7100
		72	7200
		73	7300
		74	7400
		75	7500
		76	7600
		77	7700
		78	7800

CH	Function	DMX	Description
10	Color Temperature (continued)	79	7900
		80	8000
		81	8100
		82	8200
		83	8300
		84	8400
		85–255	8500
11	Colors	0	Open
		1	Pale Yellow
		2	Straw
		3	Gold Tint
		4	Spring Yellow
		5	Medium Yellow
		6	Yellow
		7	Deep Amber
		8	Deep Straw
		9	Loving Amber
		10	Gold Amber
		11	Orange
		12	Deep Orange
		13	Dark Amber
		14	Millennium Gold
		15	Deep Golden Amber
		16	Scarlet
		17	Primary Red
		18	Bright Red
		19	Medium Red
		20	Fire
		21	Pink
		22	Medium Pink
		23	Dark Pink
		24	Bright Pink
		25	Bright Rose
		26	Special Rose Pink
		27	Vanity Fair
		28	Magenta
		29	Dark Magenta
		30	Rose Purple
		31	Mauve
		32	Medium Purple
		33	Lavender
		34	Palace blue

CH	Function	DMX	Description
11	Colors (continued)	35	Dark Blue
		36	Medium Blue
		37	Deep Blue
		38	Daylight Blue
		39	Slate Blue
		40	Light Blue
		41	Sky Blue
		42	Pale Navy Blue
		43	Marine Blue
		44	Peacock Blue
		45	Lagoon Blue
		46	Medium Blue Green
		47	Dark Yellow Green
		48	Primary Green
		49	Fern Green
		50	Moss Green
		51	Dark Green
		52	Lime Green
		53	Pale Green
		54	Quarter CT Blue
		55	Half CT Blue
		56	Full CT Blue
		57	Double CT Blue
		58	Quarter CT Orange
		59	Half CT Orange
		60	Full CT Orange
		61–179	Open
		180–201	CW fast to slow (7200–14 °/s)
		202–207	Color 1 Wheel Spin: Stop
		208–229	CCW slow to fast (14–7200 °/s)
		230–234	Open
		235–239	Color 1 Wheel Random: Fast
		240–244	Medium
		245–249	Color 1 Wheel Random: Slow
		250–255	Open
12	Gobo	0–9	Gobo: Open
		10–19	Rotating Gobo 1
		20–29	Rotating Gobo 2
		30–39	Rotating Gobo 3
		40–49	Rotating Gobo 4
		50–59	Rotating Gobo 5
		60–69	Rotating Gobo 6

CH	Function	DMX	Description
12	Gobo (continued)	70–89	Gobo 1 Shake (1–5 Hz)
		90–109	Gobo 2 Shake (1–5 Hz)
		110–129	Gobo 3 Shake (1–5 Hz)
		130–149	Gobo 4 Shake (1–5 Hz)
		150–169	Gobo 5 Shake (1–5 Hz)
		170–189	Gobo 6 Shake (1–5 Hz)
		190–221	Gobo Wheel Scroll CW Fast to Slow (360–30 °/s)
		222–223	Gobo 1 Select Spin: Stop
		224–255	Gobo Wheel Scroll CCW Slow to Fast (30–360 °/s)
13	Gobo Rotation	0–127	Gobo Indexing (360°)
		128–189	Gobo Scroll CW Fast to Slow (360–30 °/s)
		190–193	No Rotation
		194–255	Gobo Scroll CCW Slow to Fast (up to 360 °/s (60 rpm))
14	Gobo Rotation Fine	0–255	Fine adjustment of CH 13
15	Gobo 2	0–9	Gobo: Open
		10–19	Gobo 1
		20–29	Gobo 2
		30–39	Gobo 3
		40–49	Gobo 4
		50–59	Gobo 5
		60–69	Gobo 6
		70–89	Gobo 2 Select Shake: Gobo 1 (1–5 Hz)
		90–109	Gobo 2 Select Shake: Gobo 2 (1–5 Hz)
		110–129	Gobo 2 Select Shake: Gobo 3 (1–5 Hz)
		130–149	Gobo 2 Select Shake: Gobo 4 (1–5 Hz)
		150–169	Gobo 2 Select Shake: Gobo 5 (1–5 Hz)
		170–189	Gobo 2 Select Shake: Gobo 6 (1–5 Hz)
		190–221	Gobo Wheel Rotation CW Fast to Slow (360–30 °/s)
		222–223	Gobo 2 Select Spin: Stop
		224–255	Gobo Wheel Rotation CCW Slow to Fast (up to 360 °/s (60 rpm))
16	Gobo 2 Rotation	0–127	Gobo Indexing (360°)
		128–189	Gobo Scroll CW Fast to Slow (360–30 °/s)
		190–193	No Rotation
		194–255	Gobo Scroll CCW Slow to Fast (up to 360 °/s (60 rpm))
17	Gobo 2 Rotation Fine	0–255	Fine adjustment of CH 16
18	Prism	0–5	Open
		6–31	Prism 1
		32–127	Prism 2
		128–255	Idle
19	Prism Rotation	0–127	Prism Indexing (360°)
		127–189	Prism Rotation CW Fast to Slow (360–6 °/s)

CH	Function	DMX	Description
19	Prism Rotation (continued)	190–193	No Rotation
		194–255	Prism Rotation CCW Slow to Fast (up to 360 °/s (60 rpm))
20	Prism Rotation Fine	0–255	Fine adjustment of CH 19
21	Focus	0–255	Continuous Adjustment Infinity to near
22	Zoom	0–255	Zoom Adjustment Narrow to Wide (7–50°)
23	Zoom Fine	0–255	Fine adjustment of CH 22
24	Shutter	0–31	Shutter Closed
		32–63	No Function (Shutter Open)
		64–95	Strobe Effect Slow to Fast (1–10 Hz)
		96–127	No Function (Shutter Open)
		128–159	Pulse-Effect in Sequences (1–10 Hz)
		160–191	No Function (Shutter Open)
		192–223	Random Strobe Effect Slow to Fast (1–10 Hz)
		224–255	No Function (Shutter Open)
25	Dimmer	0–63	0 percent ... 25 percent
		63	25 percent
		64–127	25 percent ... 50 percent
		127	50 percent
		128–191	50 percent ... 75 percent
		191	75 percent
		192–255	75 percent ... 100 percent
		255	100 percent
26	Dimmer Fine	0–255	Fine adjustment of CH 25
27	Dimmer Mode	0–20	Standard
		21–40	Stage
		41–60	TV
		61–80	Architectural
		81–100	Theatre
		101–120	Stage 2
		121	0s
		122	0*1s
		123	0*2
		124	0*3s
		125	0*4s
		126	0*5s
		127	0*6s
		128	0*7
		129	0*8s
		130	0*9s
		131	1s
		132	1*5s
		133–141	2...10s

CH	Function	DMX	Description
27	Dimmer Mode (continued)	142–149	Idle
		150–154	DTW ON
		155–159	DTW OFF
		160–255	Idle
28	Iris	0–191	Max to Min Diameter
		192–223	Pulse Opening Fast to Slow
		224–255	Pulse Closing Slow to Fast
29	Frost		Frost 1 (Light)
		0–255	Open to Full (Light) Frost
30	Frost 2		Frost 2 (Wash)
		0–255	Open to Full (Wash) Frost
31	Animation Wheel	0–7	Open
		8–255	Animation Min to Max
32	Animation Wheel Rotation	0–127	Animation Indexing (540°)
		128–189	Animation Rotation CW Fast to Slow (360–30 °/s)
		190–193	No Rotation
		194–255	Animation Rotation CCW Slow to Fast (up to 360 °/s (60 rpm))
33	Blade 1 A	0–255	Min to Max
34	Blade 1 B	0–255	Min to Max
35	Blade 2 A	0–255	Min to Max
36	Blade 2 B	0–255	Min to Max
37	Blade 3 A	0–255	Min to Max
38	Blade 3 B	0–255	Min to Max
39	Blade 4 A	0–255	Min to Max
40	Blade 4 B	0–255	Min to Max
41	Shaper Rotation		Framing Rotation
		0–126	Min (-60 degrees)
		127–128	Parallel (0 degrees)
		129–255	Max (+60 degrees)
42	Control	0–19	Wheel Snap
		20–39	Wheel Fade
		40–44	Ultra Quiet (default)
		45–49	Best Speed
		50–79	Performance Mode: Idle
		80–84	All
		85–87	Pan/Tilt
		88–90	Gobo
		91–93	Focus and Zoom
		94–96	Others
		97–99	Reset: Idle
		100	900
		101	910

CH	Function	DMX	Description
42	Control (continued)	102	920
		103	930
		104	940
		105	950
		106	960
		107	970
		108	980
		109	990
		110	1000
		111	1010
		112	1020
		113	1030
		114	1040
		115	1050
		116	1060
		117	1070
		118	1080
		119	1090
		120	1100
		121	1110
		122	1120
		123	1130
		124	1140
		125	1150
		126	1160
		127	1170
		128	1180
		129	1190
		130	1200
		131	1210
		132	1220
		133	1230
		134	1240
		135	1250
		136	1260
		137	1270
		138	1280
		139	1290
		140	1300
		141	1310
		142	1320
		143	1330

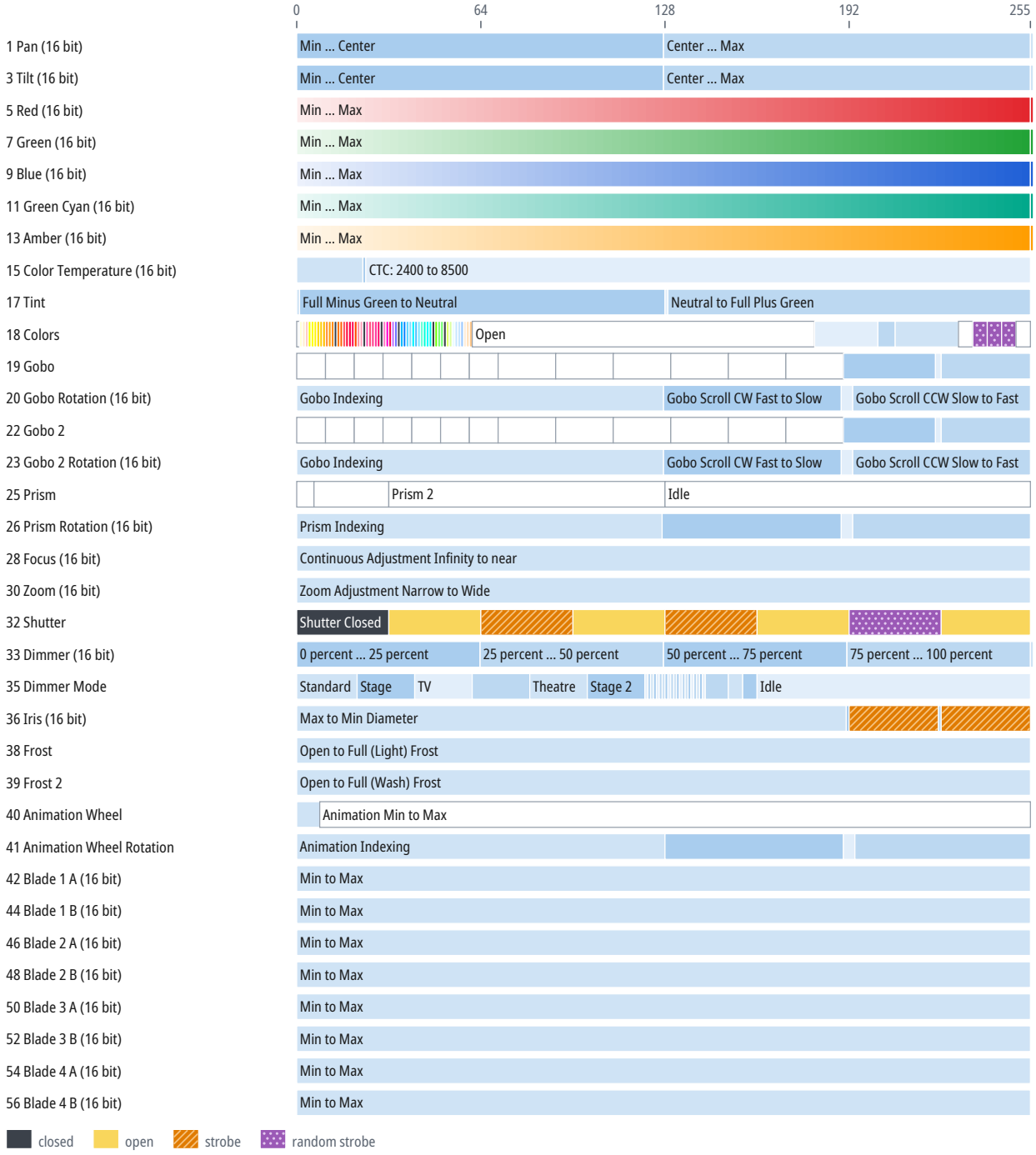
CH	Function	DMX	Description
42	Control (continued)	144	1340
		145	1350
		146	1360
		147	1370
		148	1380
		149	1390
		150	1400
		151	1410
		152	1420
		153	1430
		154	1440
		155	1450
		156	1460
		157	1470
		158	1480
		159	1490
		160	1500
		161	2500
		162	4000
		163	5000
		164	6000
		165	10000
		166	15000
		167	20000
		168	25000
		169–174	Color/Brightness Options: Idle
		175–176	Highest Fidelity
		177–178	Balanced Output and Fidelity
		179–180	Highest Output (Default)
		181–182	Bright (Highest Output)
		183–184	Uniform (Elation Full Spectrum Match)
		185–200	Color/Brightness Options: Idle
		201–210	Dimmer Curve Linear
		211–220	Dimmer Curve Square
		221–230	Dimmer Curve Inverse Square
		231–240	Dimmer Curve S-Curve (default)
		241–255	Idle

Mode Ext Pan540

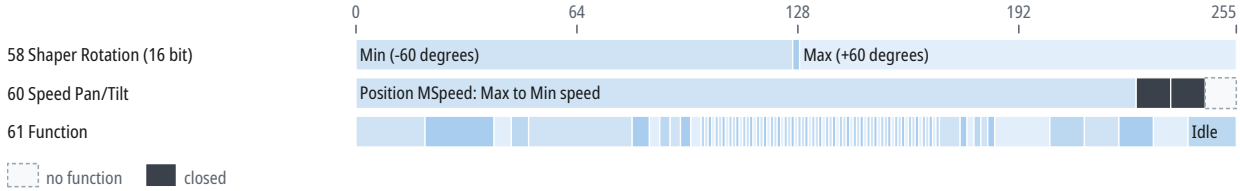
16-bit parameters use two channels, coarse and fine: value = 256 × coarse value + fine value.

The GDTF file gives these values for a console's Highlight function: CH 5 Red 255, CH 7 Green 255, CH 9 Blue 255, CH 11 Green Cyan 255, CH 13 Amber 255, CH 18 Colors 0, CH 32 Shutter 47, CH 33 Dimmer 255.

Channel functions at a glance



Channel functions at a glance



CH	Function	DMX	Description
1	Pan		Same as CH 1 in the mode “Std Pan540” (p. 15)
2	Pan Fine	0–255	Fine adjustment of CH 1
3	Tilt		Same as CH 3 in the mode “Std Pan540” (p. 15)
4	Tilt Fine	0–255	Fine adjustment of CH 3
5	Red	0–255	Min ... Max
		255	Max
6	Red Fine	0–255	Fine adjustment of CH 5
7	Green	0–255	Min ... Max
		255	Max
8	Green Fine	0–255	Fine adjustment of CH 7
9	Blue	0–255	Min ... Max
		255	Max
10	Blue Fine	0–255	Fine adjustment of CH 9
11	Green Cyan	0–255	Min ... Max
		255	Max
12	Green Cyan Fine	0–255	Fine adjustment of CH 11
13	Amber	0–255	Min ... Max
		255	Max
14	Amber Fine	0–255	Fine adjustment of CH 13
15	Color Temperature	0–23	Open(6000 K): Open
		23–24	Open(6000 K)
		24–255	CTC: 2400 to 8500 (2400–8500 K)
16	Color Temperature Fine	0–255	Fine adjustment of CH 15
17	Tint	0	Idle
		1–127	Full Minus Green to Neutral
		128	Neutral White
		129–255	Neutral to Full Plus Green
18	Colors		Same as CH 11 in the mode “Std Pan540” (p. 17)
19	Gobo		Same as CH 12 in the mode “Std Pan540” (p. 18)
20	Gobo Rotation		Same as CH 13 in the mode “Std Pan540” (p. 19)
21	Gobo Rotation Fine	0–255	Fine adjustment of CH 20
22	Gobo 2		Same as CH 15 in the mode “Std Pan540” (p. 19)
23	Gobo 2 Rotation		Same as CH 16 in the mode “Std Pan540” (p. 19)
24	Gobo 2 Rotation Fine	0–255	Fine adjustment of CH 23
25	Prism		Same as CH 18 in the mode “Std Pan540” (p. 19)

CH	Function	DMX	Description
26	Prism Rotation		Same as CH 19 in the mode “Std Pan540” (p. 19)
27	Prism Rotation Fine	0–255	Fine adjustment of CH 26
28	Focus	0–255	Continuous Adjustment Infinity to near
29	Focus Fine	0–255	Fine adjustment of CH 28
30	Zoom	0–255	Zoom Adjustment Narrow to Wide (7–50°)
31	Zoom Fine	0–255	Fine adjustment of CH 30
32	Shutter		Same as CH 24 in the mode “Std Pan540” (p. 20)
33	Dimmer		Same as CH 25 in the mode “Std Pan540” (p. 20)
34	Dimmer Fine	0–255	Fine adjustment of CH 33
35	Dimmer Mode		Same as CH 27 in the mode “Std Pan540” (p. 20)
36	Iris	0–191	Max to Min Diameter
		191–192	Iris
		192–223	Pulse Opening Fast to Slow
		223–224	Iris Pulse Open
		224–255	Pulse Closing Slow to Fast
37	Iris Fine	0–255	Fine adjustment of CH 36
38	Frost		Same as CH 29 in the mode “Std Pan540” (p. 21)
39	Frost 2		Same as CH 30 in the mode “Std Pan540” (p. 21)
40	Animation Wheel		Same as CH 31 in the mode “Std Pan540” (p. 21)
41	Animation Wheel Rotation		Same as CH 32 in the mode “Std Pan540” (p. 21)
42	Blade 1 A	0–255	Min to Max
43	Blade 1 A Fine	0–255	Fine adjustment of CH 42
44	Blade 1 B	0–255	Min to Max
45	Blade 1 B Fine	0–255	Fine adjustment of CH 44
46	Blade 2 A	0–255	Min to Max
47	Blade 2 A Fine	0–255	Fine adjustment of CH 46
48	Blade 2 B	0–255	Min to Max
49	Blade 2 B Fine	0–255	Fine adjustment of CH 48
50	Blade 3 A	0–255	Min to Max
51	Blade 3 A Fine	0–255	Fine adjustment of CH 50
52	Blade 3 B	0–255	Min to Max
53	Blade 3 B Fine	0–255	Fine adjustment of CH 52
54	Blade 4 A	0–255	Min to Max
55	Blade 4 A Fine	0–255	Fine adjustment of CH 54
56	Blade 4 B	0–255	Min to Max
57	Blade 4 B Fine	0–255	Fine adjustment of CH 56
58	Shaper Rotation		Same as CH 41 in the mode “Std Pan540” (p. 21)
59	Shaper Rotation Fine	0–255	Fine adjustment of CH 58
60	Speed Pan/Tilt	0–225	Position MSpeed: Max to Min speed
		226–235	Blackout by Movement
		236–245	Blackout by All Wheel Changing
		246–255	No Function

CH	Function	DMX	Description
61	Function	0–19	Wheel Snap
		20–39	Wheel Fade
		40–44	Ultra Quiet (default)
		45–49	Best Speed
		50–79	Performance Mode: Idle
		80–84	All
		85–87	Pan/Tilt
		88–90	Gobo
		91–93	Focus and Zoom
		94–96	Others
		97–99	Reset: Idle
		100	900
		101	910
		102	920
		103	930
		104	940
		105	950
		106	960
		107	970
		108	980
		109	990
		110	1000
		111	1010
		112	1020
		113	1030
		114	1040
		115	1050
		116	1060
		117	1070
		118	1080
		119	1090
		120	1100
		121	1110
		122	1120
		123	1130
		124	1140
		125	1150
		126	1160
		127	1170
		128	1180
		129	1190
		130	1200

CH	Function	DMX	Description
61	Function (continued)	131	1210
		132	1220
		133	1230
		134	1240
		135	1250
		136	1260
		137	1270
		138	1280
		139	1290
		140	1300
		141	1310
		142	1320
		143	1330
		144	1340
		145	1350
		146	1360
		147	1370
		148	1380
		149	1390
		150	1400
		151	1410
		152	1420
		153	1430
		154	1440
		155	1450
		156	1460
		157	1470
		158	1480
		159	1490
		160	1500
		161	2500
		162	4000
		163	5000
		164	6000
		165	10000
		166	15000
		167	20000
		168	25000
		169–174	Color/Brightness Options: Idle
		175–176	Highest Fidelity
		177–178	Balanced Output and Fidelity
		179–180	Highest Output (Default)

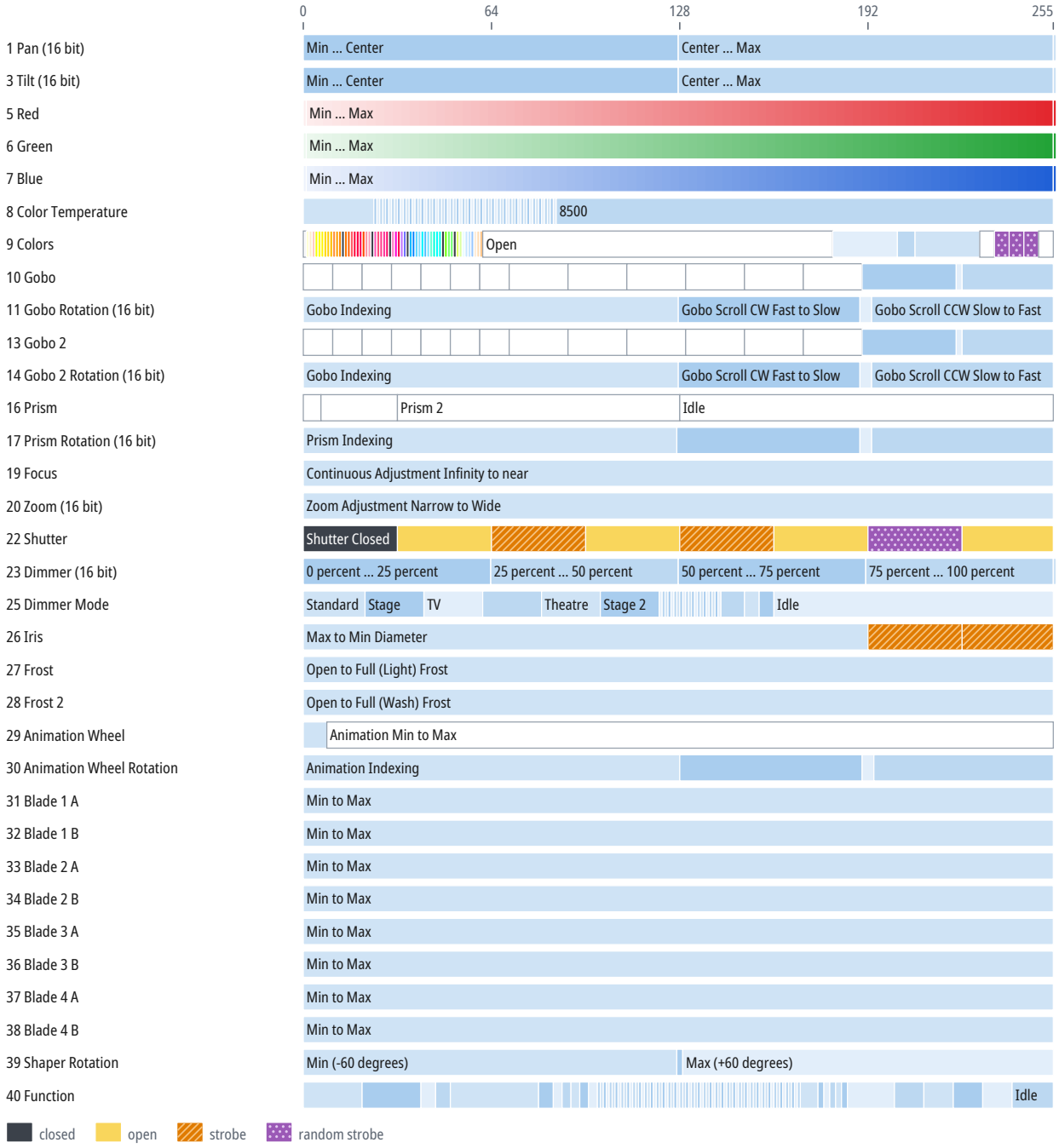
CH	Function	DMX	Description
61	Function (continued)	181–182	Bright (Highest Output)
		183–184	Uniform (Elation Full Spectrum Match)
		185–200	Color/Brightness Options: Idle
		201–210	Dimmer Curve Linear
		211–220	Dimmer Curve Square
		221–230	Dimmer Curve Inverse Square
		231–240	Dimmer Curve S-Curve (default)
		241–255	Idle

Mode RGB Pan540

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 5 Red 255, CH 6 Green 255, CH 7 Blue 255, CH 9 Colors 0, CH 22 Shutter 47, CH 23 Dimmer 255.

Channel functions at a glance



CH	Function	DMX	Description
1	Pan		Same as CH 1 in the mode “Std Pan540” (p. 15)
2	Pan Fine	0–255	Fine adjustment of CH 1
3	Tilt		Same as CH 3 in the mode “Std Pan540” (p. 15)
4	Tilt Fine	0–255	Fine adjustment of CH 3

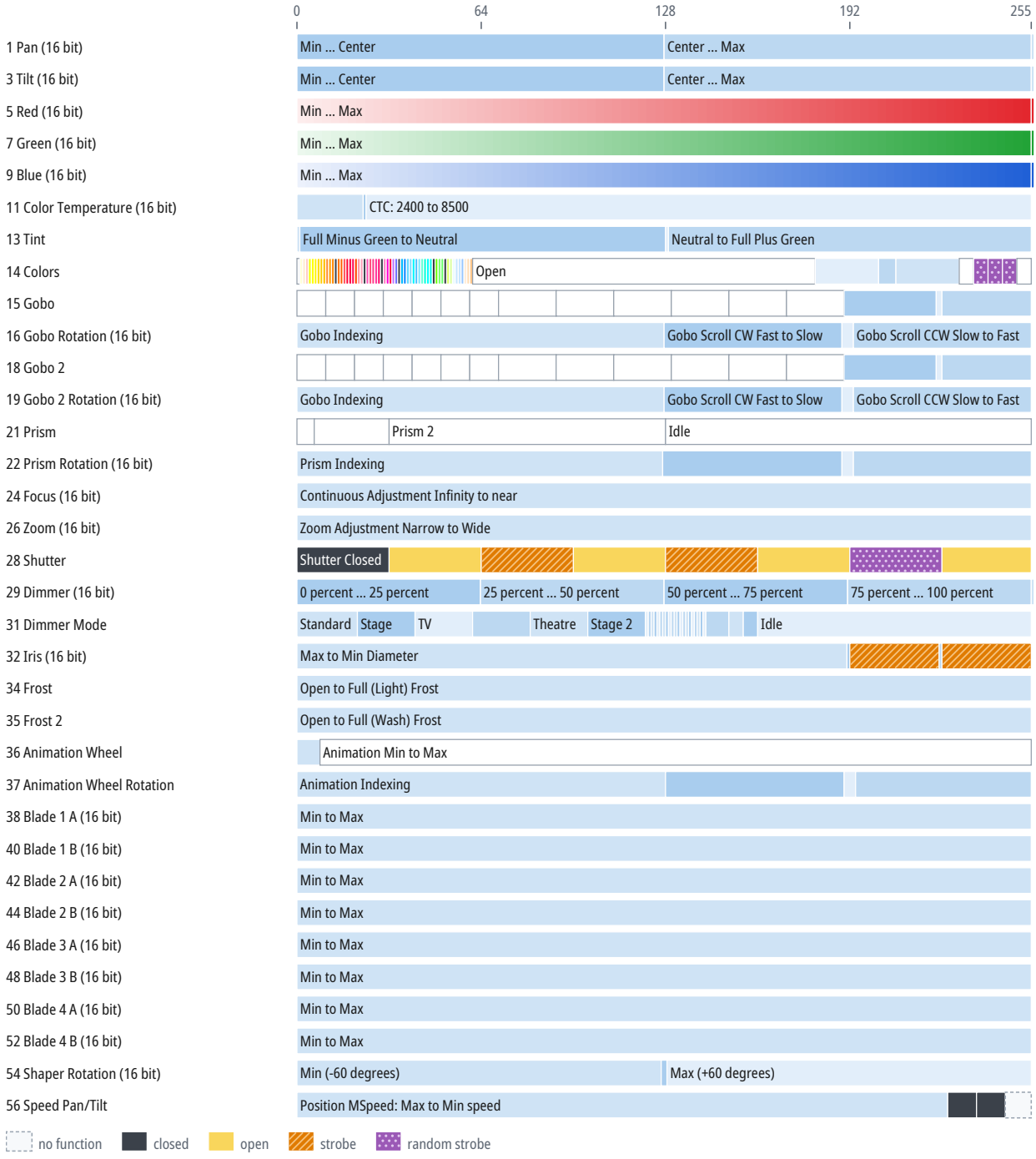
CH	Function	DMX	Description
5	Red		Same as CH 5 in the mode “Std Pan540” (p. 15)
6	Green		Same as CH 6 in the mode “Std Pan540” (p. 15)
7	Blue		Same as CH 7 in the mode “Std Pan540” (p. 15)
8	Color Temperature		Same as CH 10 in the mode “Std Pan540” (p. 15)
9	Colors		Same as CH 11 in the mode “Std Pan540” (p. 17)
10	Gobo		Same as CH 12 in the mode “Std Pan540” (p. 18)
11	Gobo Rotation		Same as CH 13 in the mode “Std Pan540” (p. 19)
12	Gobo Rotation Fine	0–255	Fine adjustment of CH 11
13	Gobo 2		Same as CH 15 in the mode “Std Pan540” (p. 19)
14	Gobo 2 Rotation		Same as CH 16 in the mode “Std Pan540” (p. 19)
15	Gobo 2 Rotation Fine	0–255	Fine adjustment of CH 14
16	Prism		Same as CH 18 in the mode “Std Pan540” (p. 19)
17	Prism Rotation		Same as CH 19 in the mode “Std Pan540” (p. 19)
18	Prism Rotation Fine	0–255	Fine adjustment of CH 17
19	Focus	0–255	Continuous Adjustment Infinity to near
20	Zoom	0–255	Zoom Adjustment Narrow to Wide (7–50°)
21	Zoom Fine	0–255	Fine adjustment of CH 20
22	Shutter		Same as CH 24 in the mode “Std Pan540” (p. 20)
23	Dimmer		Same as CH 25 in the mode “Std Pan540” (p. 20)
24	Dimmer Fine	0–255	Fine adjustment of CH 23
25	Dimmer Mode		Same as CH 27 in the mode “Std Pan540” (p. 20)
26	Iris		Same as CH 28 in the mode “Std Pan540” (p. 21)
27	Frost		Same as CH 29 in the mode “Std Pan540” (p. 21)
28	Frost 2		Same as CH 30 in the mode “Std Pan540” (p. 21)
29	Animation Wheel		Same as CH 31 in the mode “Std Pan540” (p. 21)
30	Animation Wheel Rotation		Same as CH 32 in the mode “Std Pan540” (p. 21)
31	Blade 1 A	0–255	Min to Max
32	Blade 1 B	0–255	Min to Max
33	Blade 2 A	0–255	Min to Max
34	Blade 2 B	0–255	Min to Max
35	Blade 3 A	0–255	Min to Max
36	Blade 3 B	0–255	Min to Max
37	Blade 4 A	0–255	Min to Max
38	Blade 4 B	0–255	Min to Max
39	Shaper Rotation		Same as CH 41 in the mode “Std Pan540” (p. 21)
40	Function		Same as CH 61 in the mode “Ext Pan540” (p. 27)

Mode RGB Ext Pan540

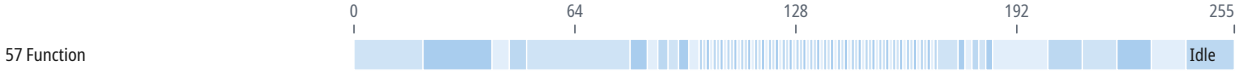
16-bit parameters use two channels, coarse and fine: value = 256 × coarse value + fine value.

The GDTF file gives these values for a console's Highlight function: CH 5 Red 255, CH 7 Green 255, CH 9 Blue 255, CH 14 Colors 0, CH 28 Shutter 47, CH 29 Dimmer 255.

Channel functions at a glance



Channel functions at a glance



CH	Function	DMX	Description
1	Pan		Same as CH 1 in the mode “Std Pan540” (p. 15)
2	Pan Fine	0–255	Fine adjustment of CH 1
3	Tilt		Same as CH 3 in the mode “Std Pan540” (p. 15)
4	Tilt Fine	0–255	Fine adjustment of CH 3
5	Red		Same as CH 5 in the mode “Ext Pan540” (p. 25)
6	Red Fine	0–255	Fine adjustment of CH 5
7	Green		Same as CH 7 in the mode “Ext Pan540” (p. 25)
8	Green Fine	0–255	Fine adjustment of CH 7
9	Blue		Same as CH 9 in the mode “Ext Pan540” (p. 25)
10	Blue Fine	0–255	Fine adjustment of CH 9
11	Color Temperature		Same as CH 15 in the mode “Ext Pan540” (p. 25)
12	Color Temperature Fine	0–255	Fine adjustment of CH 11
13	Tint		Same as CH 17 in the mode “Ext Pan540” (p. 25)
14	Colors		Same as CH 11 in the mode “Std Pan540” (p. 17)
15	Gobo		Same as CH 12 in the mode “Std Pan540” (p. 18)
16	Gobo Rotation		Same as CH 13 in the mode “Std Pan540” (p. 19)
17	Gobo Rotation Fine	0–255	Fine adjustment of CH 16
18	Gobo 2		Same as CH 15 in the mode “Std Pan540” (p. 19)
19	Gobo 2 Rotation		Same as CH 16 in the mode “Std Pan540” (p. 19)
20	Gobo 2 Rotation Fine	0–255	Fine adjustment of CH 19
21	Prism		Same as CH 18 in the mode “Std Pan540” (p. 19)
22	Prism Rotation		Same as CH 19 in the mode “Std Pan540” (p. 19)
23	Prism Rotation Fine	0–255	Fine adjustment of CH 22
24	Focus	0–255	Continuous Adjustment Infinity to near
25	Focus Fine	0–255	Fine adjustment of CH 24
26	Zoom	0–255	Zoom Adjustment Narrow to Wide (7–50°)
27	Zoom Fine	0–255	Fine adjustment of CH 26
28	Shutter		Same as CH 24 in the mode “Std Pan540” (p. 20)
29	Dimmer		Same as CH 25 in the mode “Std Pan540” (p. 20)
30	Dimmer Fine	0–255	Fine adjustment of CH 29
31	Dimmer Mode		Same as CH 27 in the mode “Std Pan540” (p. 20)
32	Iris		Same as CH 36 in the mode “Ext Pan540” (p. 26)
33	Iris Fine	0–255	Fine adjustment of CH 32
34	Frost		Same as CH 29 in the mode “Std Pan540” (p. 21)
35	Frost 2		Same as CH 30 in the mode “Std Pan540” (p. 21)
36	Animation Wheel		Same as CH 31 in the mode “Std Pan540” (p. 21)
37	Animation Wheel Rotation		Same as CH 32 in the mode “Std Pan540” (p. 21)

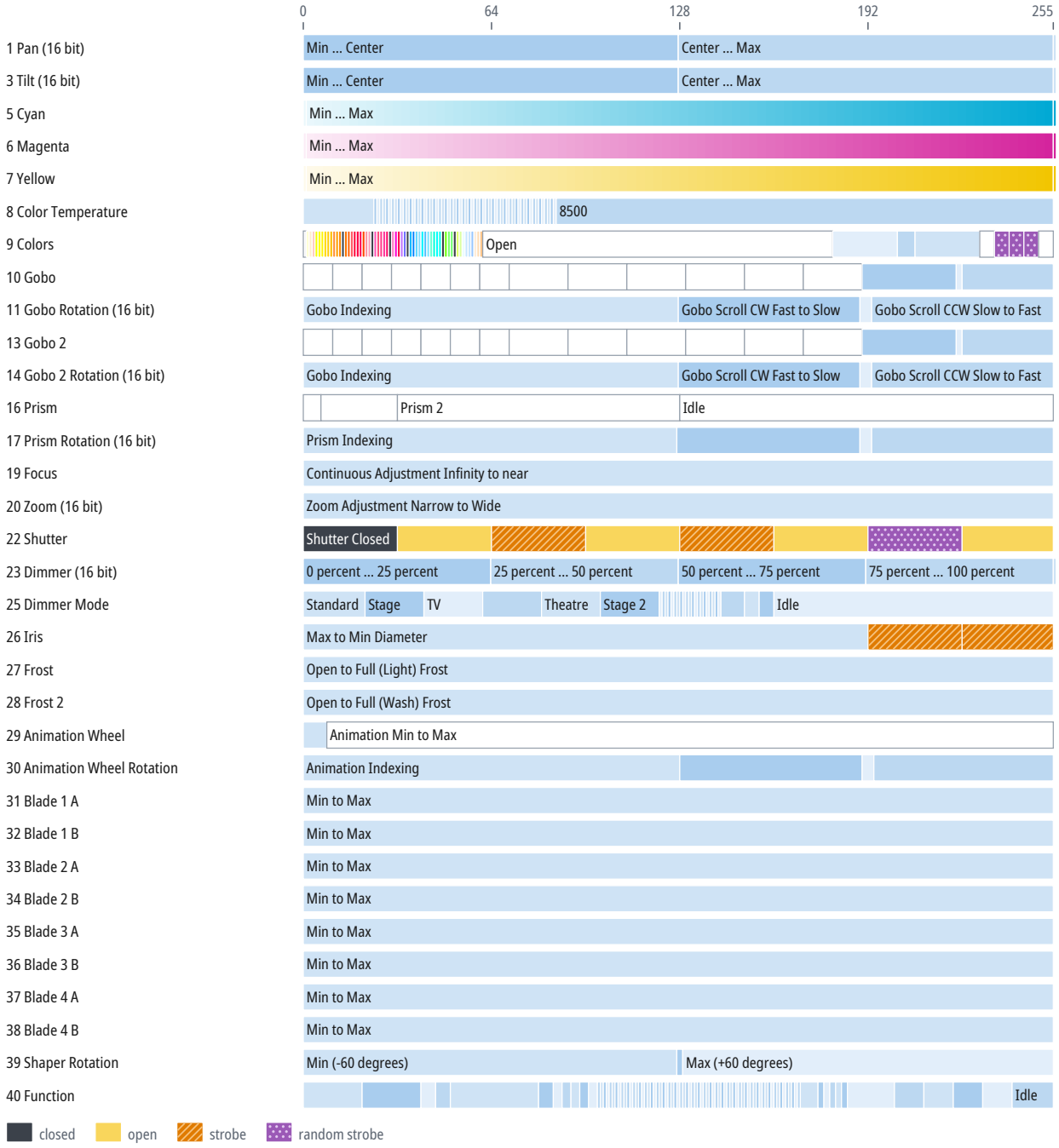
CH	Function	DMX	Description
38	Blade 1 A	0–255	Min to Max
39	Blade 1 A Fine	0–255	Fine adjustment of CH 38
40	Blade 1 B	0–255	Min to Max
41	Blade 1 B Fine	0–255	Fine adjustment of CH 40
42	Blade 2 A	0–255	Min to Max
43	Blade 2 A Fine	0–255	Fine adjustment of CH 42
44	Blade 2 B	0–255	Min to Max
45	Blade 2 B Fine	0–255	Fine adjustment of CH 44
46	Blade 3 A	0–255	Min to Max
47	Blade 3 A Fine	0–255	Fine adjustment of CH 46
48	Blade 3 B	0–255	Min to Max
49	Blade 3 B Fine	0–255	Fine adjustment of CH 48
50	Blade 4 A	0–255	Min to Max
51	Blade 4 A Fine	0–255	Fine adjustment of CH 50
52	Blade 4 B	0–255	Min to Max
53	Blade 4 B Fine	0–255	Fine adjustment of CH 52
54	Shaper Rotation		Same as CH 41 in the mode “Std Pan540” (p. 21)
55	Shaper Rotation Fine	0–255	Fine adjustment of CH 54
56	Speed Pan/Tilt		Same as CH 60 in the mode “Ext Pan540” (p. 26)
57	Function		Same as CH 61 in the mode “Ext Pan540” (p. 27)

Mode CMY Pan540

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 5 Cyan 0, CH 6 Magenta 0, CH 7 Yellow 0, CH 9 Colors 0, CH 22 Shutter 47, CH 23 Dimmer 255.

Channel functions at a glance



CH	Function	DMX	Description
1	Pan		Same as CH 1 in the mode “Std Pan540” (p. 15)
2	Pan Fine	0–255	Fine adjustment of CH 1
3	Tilt		Same as CH 3 in the mode “Std Pan540” (p. 15)
4	Tilt Fine	0–255	Fine adjustment of CH 3

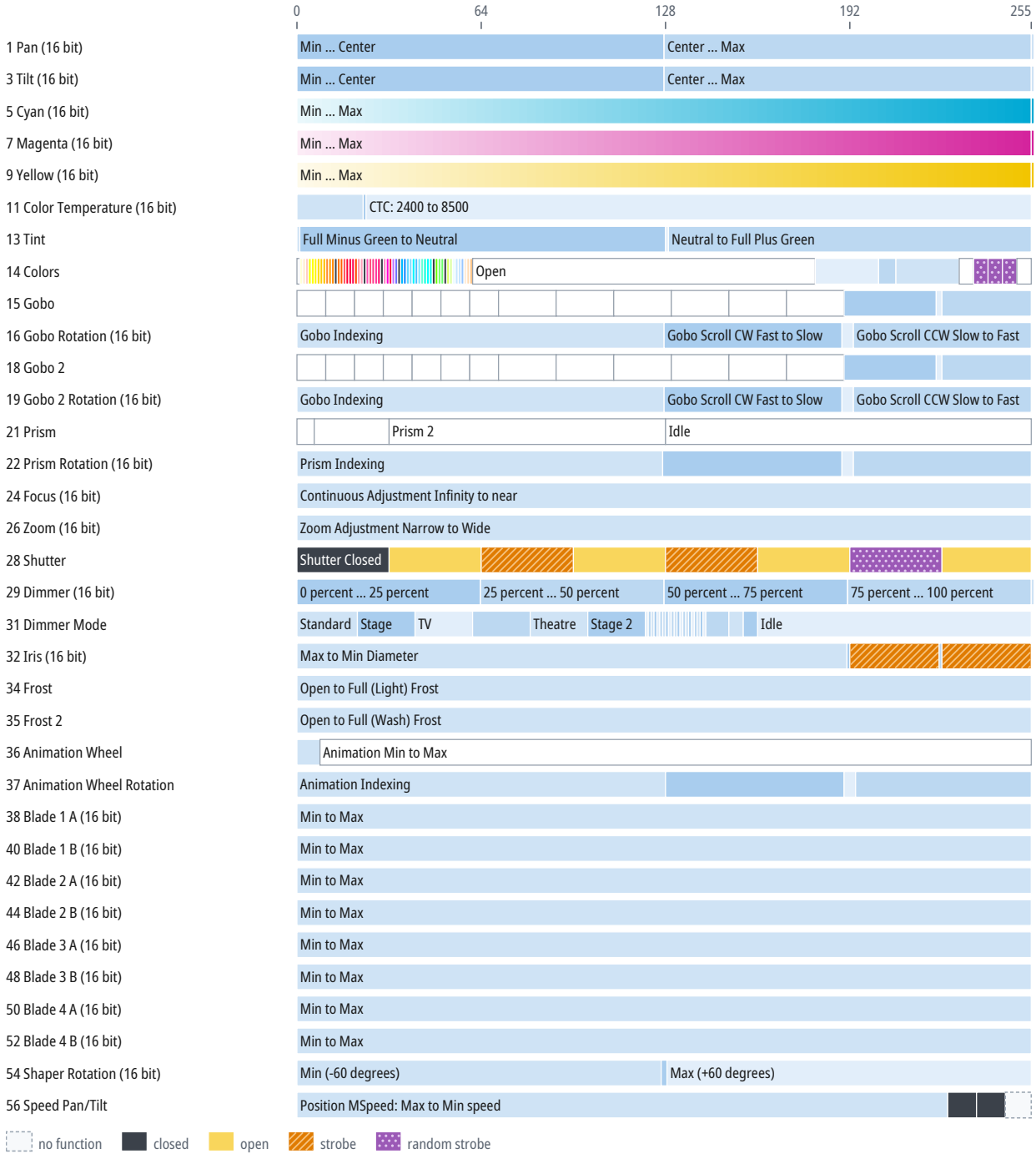
CH	Function	DMX	Description
5	Cyan	0	Min
		1–254	Min ... Max
		255	Max
6	Magenta	0	Min
		1–254	Min ... Max
		255	Max
7	Yellow	0	Min
		1–254	Min ... Max
		255	Max
8	Color Temperature		Same as CH 10 in the mode “Std Pan540” (p. 15)
9	Colors		Same as CH 11 in the mode “Std Pan540” (p. 17)
10	Gobo		Same as CH 12 in the mode “Std Pan540” (p. 18)
11	Gobo Rotation		Same as CH 13 in the mode “Std Pan540” (p. 19)
12	Gobo Rotation Fine	0–255	Fine adjustment of CH 11
13	Gobo 2		Same as CH 15 in the mode “Std Pan540” (p. 19)
14	Gobo 2 Rotation		Same as CH 16 in the mode “Std Pan540” (p. 19)
15	Gobo 2 Rotation Fine	0–255	Fine adjustment of CH 14
16	Prism		Same as CH 18 in the mode “Std Pan540” (p. 19)
17	Prism Rotation		Same as CH 19 in the mode “Std Pan540” (p. 19)
18	Prism Rotation Fine	0–255	Fine adjustment of CH 17
19	Focus	0–255	Continuous Adjustment Infinity to near
20	Zoom	0–255	Zoom Adjustment Narrow to Wide (7–50°)
21	Zoom Fine	0–255	Fine adjustment of CH 20
22	Shutter		Same as CH 24 in the mode “Std Pan540” (p. 20)
23	Dimmer		Same as CH 25 in the mode “Std Pan540” (p. 20)
24	Dimmer Fine	0–255	Fine adjustment of CH 23
25	Dimmer Mode		Same as CH 27 in the mode “Std Pan540” (p. 20)
26	Iris		Same as CH 28 in the mode “Std Pan540” (p. 21)
27	Frost		Same as CH 29 in the mode “Std Pan540” (p. 21)
28	Frost 2		Same as CH 30 in the mode “Std Pan540” (p. 21)
29	Animation Wheel		Same as CH 31 in the mode “Std Pan540” (p. 21)
30	Animation Wheel Rotation		Same as CH 32 in the mode “Std Pan540” (p. 21)
31	Blade 1 A	0–255	Min to Max
32	Blade 1 B	0–255	Min to Max
33	Blade 2 A	0–255	Min to Max
34	Blade 2 B	0–255	Min to Max
35	Blade 3 A	0–255	Min to Max
36	Blade 3 B	0–255	Min to Max
37	Blade 4 A	0–255	Min to Max
38	Blade 4 B	0–255	Min to Max
39	Shaper Rotation		Same as CH 41 in the mode “Std Pan540” (p. 21)
40	Function		Same as CH 61 in the mode “Ext Pan540” (p. 27)

Mode CMY Ext Pan540

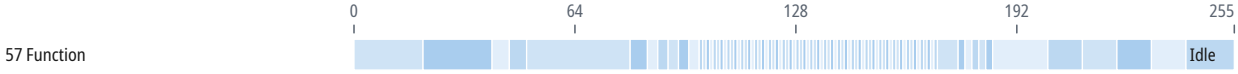
16-bit parameters use two channels, coarse and fine: value = 256 × coarse value + fine value.

The GDTF file gives these values for a console's Highlight function: CH 5 Cyan 0, CH 7 Magenta 0, CH 9 Yellow 0, CH 14 Colors 0, CH 28 Shutter 47, CH 29 Dimmer 255.

Channel functions at a glance



Channel functions at a glance



CH	Function	DMX	Description
1	Pan		Same as CH 1 in the mode “Std Pan540” (p. 15)
2	Pan Fine	0–255	Fine adjustment of CH 1
3	Tilt		Same as CH 3 in the mode “Std Pan540” (p. 15)
4	Tilt Fine	0–255	Fine adjustment of CH 3
5	Cyan	0–255	Min ... Max
		255	Max
6	Cyan Fine	0–255	Fine adjustment of CH 5
7	Magenta	0–255	Min ... Max
		255	Max
8	Magenta Fine	0–255	Fine adjustment of CH 7
9	Yellow	0–255	Min ... Max
		255	Max
10	Yellow Fine	0–255	Fine adjustment of CH 9
11	Color Temperature		Same as CH 15 in the mode “Ext Pan540” (p. 25)
12	Color Temperature Fine	0–255	Fine adjustment of CH 11
13	Tint		Same as CH 17 in the mode “Ext Pan540” (p. 25)
14	Colors		Same as CH 11 in the mode “Std Pan540” (p. 17)
15	Gobo		Same as CH 12 in the mode “Std Pan540” (p. 18)
16	Gobo Rotation		Same as CH 13 in the mode “Std Pan540” (p. 19)
17	Gobo Rotation Fine	0–255	Fine adjustment of CH 16
18	Gobo 2		Same as CH 15 in the mode “Std Pan540” (p. 19)
19	Gobo 2 Rotation		Same as CH 16 in the mode “Std Pan540” (p. 19)
20	Gobo 2 Rotation Fine	0–255	Fine adjustment of CH 19
21	Prism		Same as CH 18 in the mode “Std Pan540” (p. 19)
22	Prism Rotation		Same as CH 19 in the mode “Std Pan540” (p. 19)
23	Prism Rotation Fine	0–255	Fine adjustment of CH 22
24	Focus	0–255	Continuous Adjustment Infinity to near
25	Focus Fine	0–255	Fine adjustment of CH 24
26	Zoom	0–255	Zoom Adjustment Narrow to Wide (7–50°)
27	Zoom Fine	0–255	Fine adjustment of CH 26
28	Shutter		Same as CH 24 in the mode “Std Pan540” (p. 20)
29	Dimmer		Same as CH 25 in the mode “Std Pan540” (p. 20)
30	Dimmer Fine	0–255	Fine adjustment of CH 29
31	Dimmer Mode		Same as CH 27 in the mode “Std Pan540” (p. 20)
32	Iris		Same as CH 36 in the mode “Ext Pan540” (p. 26)
33	Iris Fine	0–255	Fine adjustment of CH 32
34	Frost		Same as CH 29 in the mode “Std Pan540” (p. 21)

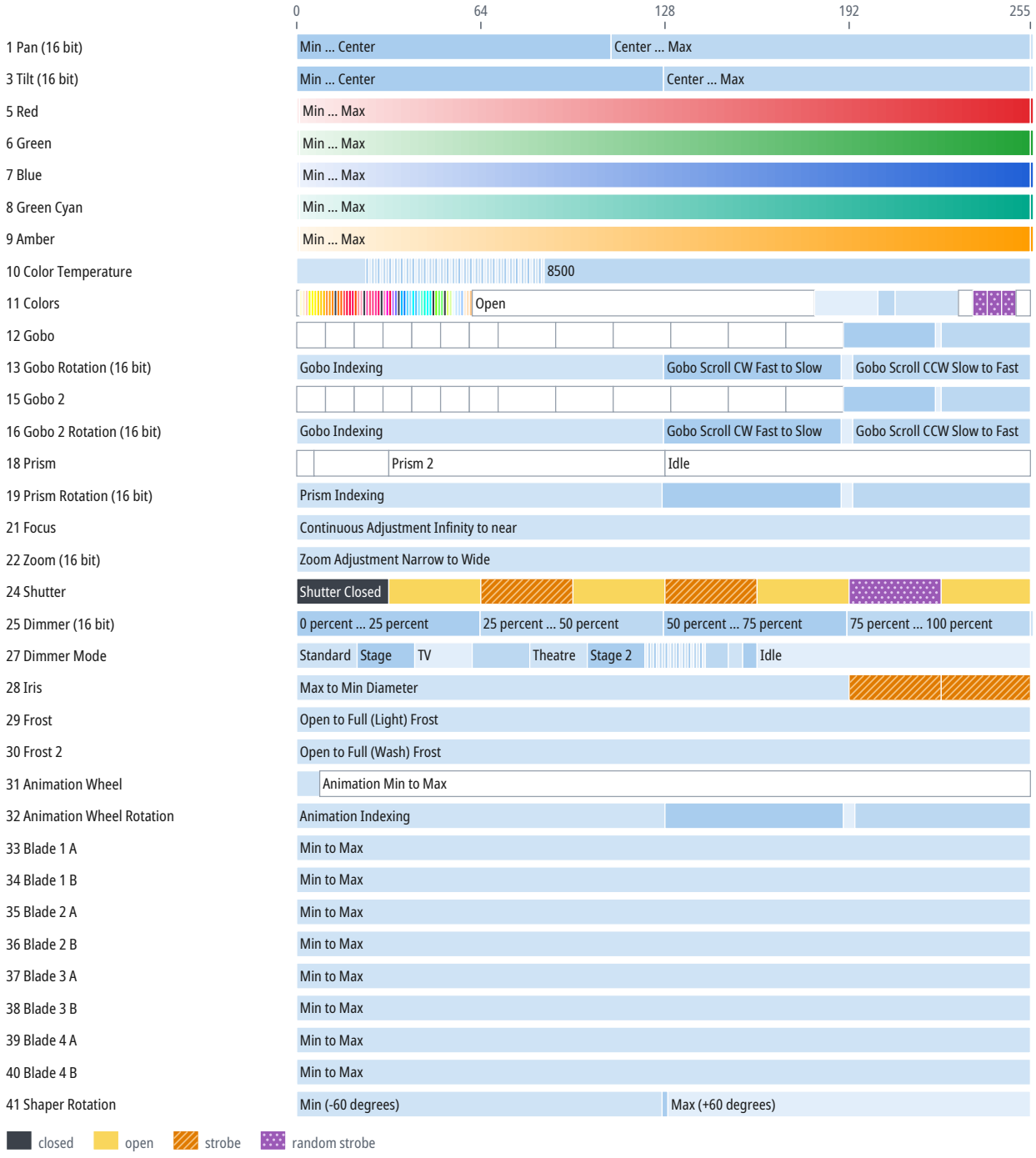
CH	Function	DMX	Description
35	Frost 2		Same as CH 30 in the mode “Std Pan540” (p. 21)
36	Animation Wheel		Same as CH 31 in the mode “Std Pan540” (p. 21)
37	Animation Wheel Rotation		Same as CH 32 in the mode “Std Pan540” (p. 21)
38	Blade 1 A	0–255	Min to Max
39	Blade 1 A Fine	0–255	Fine adjustment of CH 38
40	Blade 1 B	0–255	Min to Max
41	Blade 1 B Fine	0–255	Fine adjustment of CH 40
42	Blade 2 A	0–255	Min to Max
43	Blade 2 A Fine	0–255	Fine adjustment of CH 42
44	Blade 2 B	0–255	Min to Max
45	Blade 2 B Fine	0–255	Fine adjustment of CH 44
46	Blade 3 A	0–255	Min to Max
47	Blade 3 A Fine	0–255	Fine adjustment of CH 46
48	Blade 3 B	0–255	Min to Max
49	Blade 3 B Fine	0–255	Fine adjustment of CH 48
50	Blade 4 A	0–255	Min to Max
51	Blade 4 A Fine	0–255	Fine adjustment of CH 50
52	Blade 4 B	0–255	Min to Max
53	Blade 4 B Fine	0–255	Fine adjustment of CH 52
54	Shaper Rotation		Same as CH 41 in the mode “Std Pan540” (p. 21)
55	Shaper Rotation Fine	0–255	Fine adjustment of CH 54
56	Speed Pan/Tilt		Same as CH 60 in the mode “Ext Pan540” (p. 26)
57	Function		Same as CH 61 in the mode “Ext Pan540” (p. 27)

Mode Std Pan630

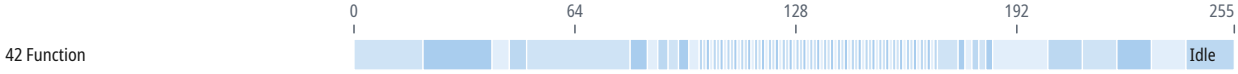
16-bit parameters use two channels, coarse and fine: value = 256 × coarse value + fine value.

The GDTF file gives these values for a console's Highlight function: CH 5 Red 255, CH 6 Green 255, CH 7 Blue 255, CH 8 Green Cyan 255, CH 9 Amber 255, CH 11 Colors 0, CH 24 Shutter 47, CH 25 Dimmer 255.

Channel functions at a glance



Channel functions at a glance



CH	Function	DMX	Description
1	Pan	0–109	Min ... Center
		109–255	Center ... Max
		255	Max
2	Pan Fine	0–255	Fine adjustment of CH 1
3	Tilt		Same as CH 3 in the mode “Std Pan540” (p. 15)
4	Tilt Fine	0–255	Fine adjustment of CH 3
5	Red		Same as CH 5 in the mode “Std Pan540” (p. 15)
6	Green		Same as CH 6 in the mode “Std Pan540” (p. 15)
7	Blue		Same as CH 7 in the mode “Std Pan540” (p. 15)
8	Green Cyan		Same as CH 8 in the mode “Std Pan540” (p. 15)
9	Amber		Same as CH 9 in the mode “Std Pan540” (p. 15)
10	Color Temperature		Same as CH 10 in the mode “Std Pan540” (p. 15)
11	Colors		Same as CH 11 in the mode “Std Pan540” (p. 17)
12	Gobo		Same as CH 12 in the mode “Std Pan540” (p. 18)
13	Gobo Rotation		Same as CH 13 in the mode “Std Pan540” (p. 19)
14	Gobo Rotation Fine	0–255	Fine adjustment of CH 13
15	Gobo 2		Same as CH 15 in the mode “Std Pan540” (p. 19)
16	Gobo 2 Rotation		Same as CH 16 in the mode “Std Pan540” (p. 19)
17	Gobo 2 Rotation Fine	0–255	Fine adjustment of CH 16
18	Prism		Same as CH 18 in the mode “Std Pan540” (p. 19)
19	Prism Rotation		Same as CH 19 in the mode “Std Pan540” (p. 19)
20	Prism Rotation Fine	0–255	Fine adjustment of CH 19
21	Focus	0–255	Continuous Adjustment Infinity to near
22	Zoom	0–255	Zoom Adjustment Narrow to Wide (7–50°)
23	Zoom Fine	0–255	Fine adjustment of CH 22
24	Shutter		Same as CH 24 in the mode “Std Pan540” (p. 20)
25	Dimmer		Same as CH 25 in the mode “Std Pan540” (p. 20)
26	Dimmer Fine	0–255	Fine adjustment of CH 25
27	Dimmer Mode		Same as CH 27 in the mode “Std Pan540” (p. 20)
28	Iris		Same as CH 28 in the mode “Std Pan540” (p. 21)
29	Frost		Same as CH 29 in the mode “Std Pan540” (p. 21)
30	Frost 2		Same as CH 30 in the mode “Std Pan540” (p. 21)
31	Animation Wheel		Same as CH 31 in the mode “Std Pan540” (p. 21)
32	Animation Wheel Rotation		Same as CH 32 in the mode “Std Pan540” (p. 21)
33	Blade 1 A	0–255	Min to Max
34	Blade 1 B	0–255	Min to Max
35	Blade 2 A	0–255	Min to Max

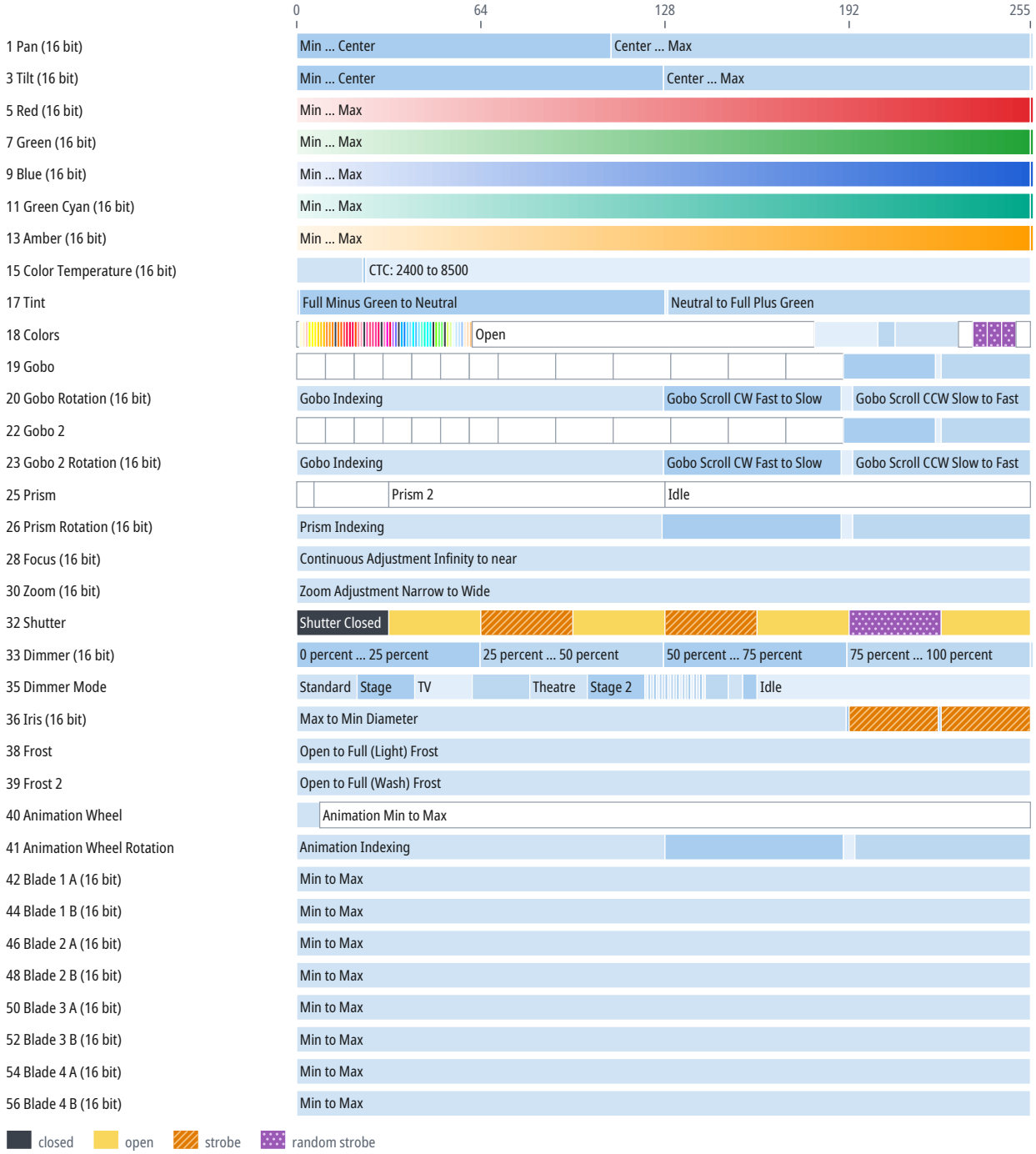
CH	Function	DMX	Description
36	Blade 2 B	0–255	Min to Max
37	Blade 3 A	0–255	Min to Max
38	Blade 3 B	0–255	Min to Max
39	Blade 4 A	0–255	Min to Max
40	Blade 4 B	0–255	Min to Max
41	Shaper Rotation		Same as CH 41 in the mode “Std Pan540” (p. 21)
42	Function		Same as CH 61 in the mode “Ext Pan540” (p. 27)

Mode Ext Pan630

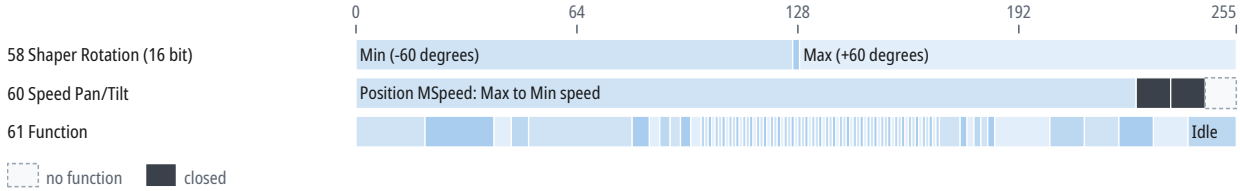
16-bit parameters use two channels, coarse and fine: value = 256 × coarse value + fine value.

The GDTF file gives these values for a console's Highlight function: CH 5 Red 255, CH 7 Green 255, CH 9 Blue 255, CH 11 Green Cyan 255, CH 13 Amber 255, CH 18 Colors 0, CH 32 Shutter 47, CH 33 Dimmer 255.

Channel functions at a glance



Channel functions at a glance



CH	Function	DMX	Description
1	Pan		Same as CH 1 in the mode “Std Pan630” (p. 41)
2	Pan Fine	0–255	Fine adjustment of CH 1
3	Tilt		Same as CH 3 in the mode “Std Pan540” (p. 15)
4	Tilt Fine	0–255	Fine adjustment of CH 3
5	Red		Same as CH 5 in the mode “Ext Pan540” (p. 25)
6	Red Fine	0–255	Fine adjustment of CH 5
7	Green		Same as CH 7 in the mode “Ext Pan540” (p. 25)
8	Green Fine	0–255	Fine adjustment of CH 7
9	Blue		Same as CH 9 in the mode “Ext Pan540” (p. 25)
10	Blue Fine	0–255	Fine adjustment of CH 9
11	Green Cyan		Same as CH 11 in the mode “Ext Pan540” (p. 25)
12	Green Cyan Fine	0–255	Fine adjustment of CH 11
13	Amber		Same as CH 13 in the mode “Ext Pan540” (p. 25)
14	Amber Fine	0–255	Fine adjustment of CH 13
15	Color Temperature		Same as CH 15 in the mode “Ext Pan540” (p. 25)
16	Color Temperature Fine	0–255	Fine adjustment of CH 15
17	Tint		Same as CH 17 in the mode “Ext Pan540” (p. 25)
18	Colors		Same as CH 11 in the mode “Std Pan540” (p. 17)
19	Gobo		Same as CH 12 in the mode “Std Pan540” (p. 18)
20	Gobo Rotation		Same as CH 13 in the mode “Std Pan540” (p. 19)
21	Gobo Rotation Fine	0–255	Fine adjustment of CH 20
22	Gobo 2		Same as CH 15 in the mode “Std Pan540” (p. 19)
23	Gobo 2 Rotation		Same as CH 16 in the mode “Std Pan540” (p. 19)
24	Gobo 2 Rotation Fine	0–255	Fine adjustment of CH 23
25	Prism		Same as CH 18 in the mode “Std Pan540” (p. 19)
26	Prism Rotation		Same as CH 19 in the mode “Std Pan540” (p. 19)
27	Prism Rotation Fine	0–255	Fine adjustment of CH 26
28	Focus	0–255	Continuous Adjustment Infinity to near
29	Focus Fine	0–255	Fine adjustment of CH 28
30	Zoom	0–255	Zoom Adjustment Narrow to Wide (7–50°)
31	Zoom Fine	0–255	Fine adjustment of CH 30
32	Shutter		Same as CH 24 in the mode “Std Pan540” (p. 20)
33	Dimmer		Same as CH 25 in the mode “Std Pan540” (p. 20)
34	Dimmer Fine	0–255	Fine adjustment of CH 33
35	Dimmer Mode		Same as CH 27 in the mode “Std Pan540” (p. 20)

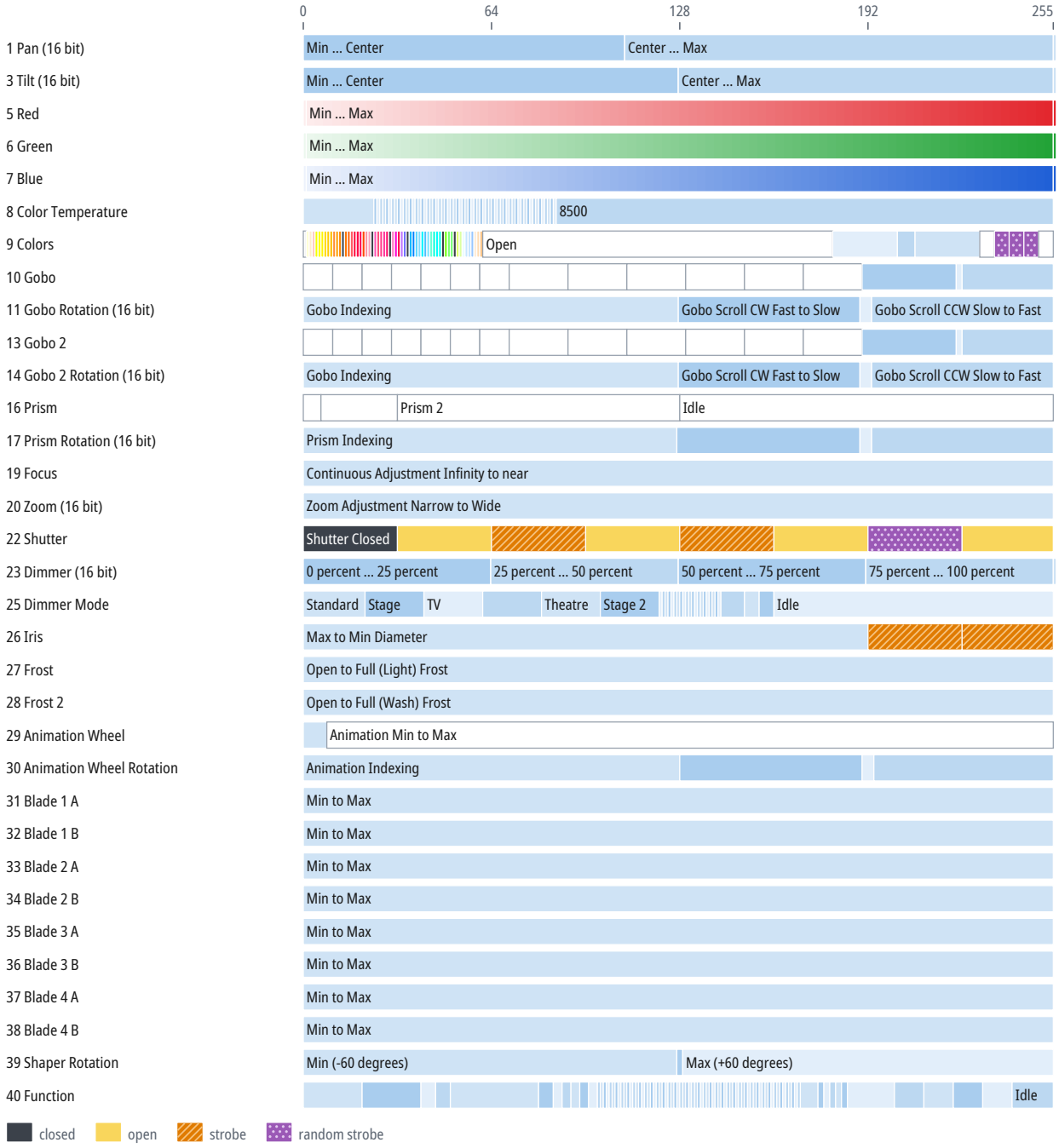
CH	Function	DMX	Description
36	Iris		Same as CH 36 in the mode “Ext Pan540” (p. 26)
37	Iris Fine	0–255	Fine adjustment of CH 36
38	Frost		Same as CH 29 in the mode “Std Pan540” (p. 21)
39	Frost 2		Same as CH 30 in the mode “Std Pan540” (p. 21)
40	Animation Wheel		Same as CH 31 in the mode “Std Pan540” (p. 21)
41	Animation Wheel Rotation		Same as CH 32 in the mode “Std Pan540” (p. 21)
42	Blade 1 A	0–255	Min to Max
43	Blade 1 A Fine	0–255	Fine adjustment of CH 42
44	Blade 1 B	0–255	Min to Max
45	Blade 1 B Fine	0–255	Fine adjustment of CH 44
46	Blade 2 A	0–255	Min to Max
47	Blade 2 A Fine	0–255	Fine adjustment of CH 46
48	Blade 2 B	0–255	Min to Max
49	Blade 2 B Fine	0–255	Fine adjustment of CH 48
50	Blade 3 A	0–255	Min to Max
51	Blade 3 A Fine	0–255	Fine adjustment of CH 50
52	Blade 3 B	0–255	Min to Max
53	Blade 3 B Fine	0–255	Fine adjustment of CH 52
54	Blade 4 A	0–255	Min to Max
55	Blade 4 A Fine	0–255	Fine adjustment of CH 54
56	Blade 4 B	0–255	Min to Max
57	Blade 4 B Fine	0–255	Fine adjustment of CH 56
58	Shaper Rotation		Same as CH 41 in the mode “Std Pan540” (p. 21)
59	Shaper Rotation Fine	0–255	Fine adjustment of CH 58
60	Speed Pan/Tilt		Same as CH 60 in the mode “Ext Pan540” (p. 26)
61	Function		Same as CH 61 in the mode “Ext Pan540” (p. 27)

Mode RGB Pan630

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 5 Red 255, CH 6 Green 255, CH 7 Blue 255, CH 9 Colors 0, CH 22 Shutter 47, CH 23 Dimmer 255.

Channel functions at a glance



CH	Function	DMX	Description
1	Pan		Same as CH 1 in the mode “Std Pan630” (p. 41)
2	Pan Fine	0–255	Fine adjustment of CH 1
3	Tilt		Same as CH 3 in the mode “Std Pan540” (p. 15)
4	Tilt Fine	0–255	Fine adjustment of CH 3

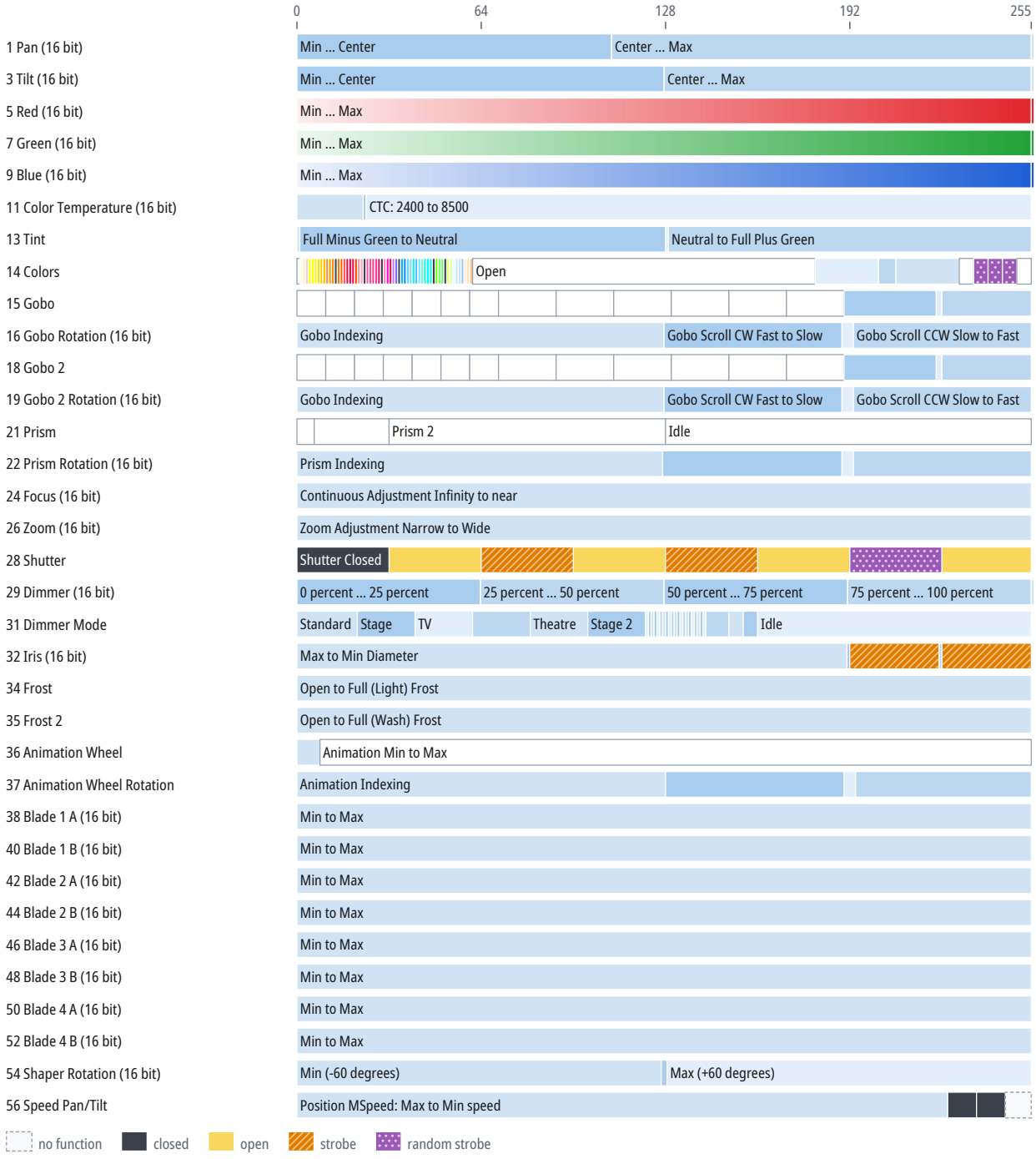
CH	Function	DMX	Description
5	Red		Same as CH 5 in the mode “Std Pan540” (p. 15)
6	Green		Same as CH 6 in the mode “Std Pan540” (p. 15)
7	Blue		Same as CH 7 in the mode “Std Pan540” (p. 15)
8	Color Temperature		Same as CH 10 in the mode “Std Pan540” (p. 15)
9	Colors		Same as CH 11 in the mode “Std Pan540” (p. 17)
10	Gobo		Same as CH 12 in the mode “Std Pan540” (p. 18)
11	Gobo Rotation		Same as CH 13 in the mode “Std Pan540” (p. 19)
12	Gobo Rotation Fine	0–255	Fine adjustment of CH 11
13	Gobo 2		Same as CH 15 in the mode “Std Pan540” (p. 19)
14	Gobo 2 Rotation		Same as CH 16 in the mode “Std Pan540” (p. 19)
15	Gobo 2 Rotation Fine	0–255	Fine adjustment of CH 14
16	Prism		Same as CH 18 in the mode “Std Pan540” (p. 19)
17	Prism Rotation		Same as CH 19 in the mode “Std Pan540” (p. 19)
18	Prism Rotation Fine	0–255	Fine adjustment of CH 17
19	Focus	0–255	Continuous Adjustment Infinity to near
20	Zoom	0–255	Zoom Adjustment Narrow to Wide (7–50°)
21	Zoom Fine	0–255	Fine adjustment of CH 20
22	Shutter		Same as CH 24 in the mode “Std Pan540” (p. 20)
23	Dimmer		Same as CH 25 in the mode “Std Pan540” (p. 20)
24	Dimmer Fine	0–255	Fine adjustment of CH 23
25	Dimmer Mode		Same as CH 27 in the mode “Std Pan540” (p. 20)
26	Iris		Same as CH 28 in the mode “Std Pan540” (p. 21)
27	Frost		Same as CH 29 in the mode “Std Pan540” (p. 21)
28	Frost 2		Same as CH 30 in the mode “Std Pan540” (p. 21)
29	Animation Wheel		Same as CH 31 in the mode “Std Pan540” (p. 21)
30	Animation Wheel Rotation		Same as CH 32 in the mode “Std Pan540” (p. 21)
31	Blade 1 A	0–255	Min to Max
32	Blade 1 B	0–255	Min to Max
33	Blade 2 A	0–255	Min to Max
34	Blade 2 B	0–255	Min to Max
35	Blade 3 A	0–255	Min to Max
36	Blade 3 B	0–255	Min to Max
37	Blade 4 A	0–255	Min to Max
38	Blade 4 B	0–255	Min to Max
39	Shaper Rotation		Same as CH 41 in the mode “Std Pan540” (p. 21)
40	Function		Same as CH 61 in the mode “Ext Pan540” (p. 27)

Mode RGB Ext Pan630

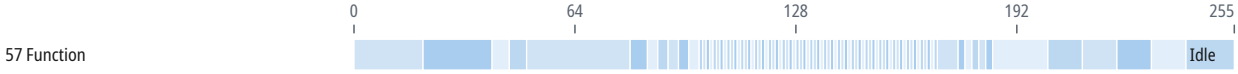
16-bit parameters use two channels, coarse and fine: value = 256 × coarse value + fine value.

The GDTF file gives these values for a console's Highlight function: CH 5 Red 255, CH 7 Green 255, CH 9 Blue 255, CH 14 Colors 0, CH 28 Shutter 47, CH 29 Dimmer 255.

Channel functions at a glance



Channel functions at a glance



CH	Function	DMX	Description
1	Pan		Same as CH 1 in the mode “Std Pan630” (p. 41)
2	Pan Fine	0–255	Fine adjustment of CH 1
3	Tilt		Same as CH 3 in the mode “Std Pan540” (p. 15)
4	Tilt Fine	0–255	Fine adjustment of CH 3
5	Red		Same as CH 5 in the mode “Ext Pan540” (p. 25)
6	Red Fine	0–255	Fine adjustment of CH 5
7	Green		Same as CH 7 in the mode “Ext Pan540” (p. 25)
8	Green Fine	0–255	Fine adjustment of CH 7
9	Blue		Same as CH 9 in the mode “Ext Pan540” (p. 25)
10	Blue Fine	0–255	Fine adjustment of CH 9
11	Color Temperature		Same as CH 15 in the mode “Ext Pan540” (p. 25)
12	Color Temperature Fine	0–255	Fine adjustment of CH 11
13	Tint		Same as CH 17 in the mode “Ext Pan540” (p. 25)
14	Colors		Same as CH 11 in the mode “Std Pan540” (p. 17)
15	Gobo		Same as CH 12 in the mode “Std Pan540” (p. 18)
16	Gobo Rotation		Same as CH 13 in the mode “Std Pan540” (p. 19)
17	Gobo Rotation Fine	0–255	Fine adjustment of CH 16
18	Gobo 2		Same as CH 15 in the mode “Std Pan540” (p. 19)
19	Gobo 2 Rotation		Same as CH 16 in the mode “Std Pan540” (p. 19)
20	Gobo 2 Rotation Fine	0–255	Fine adjustment of CH 19
21	Prism		Same as CH 18 in the mode “Std Pan540” (p. 19)
22	Prism Rotation		Same as CH 19 in the mode “Std Pan540” (p. 19)
23	Prism Rotation Fine	0–255	Fine adjustment of CH 22
24	Focus	0–255	Continuous Adjustment Infinity to near
25	Focus Fine	0–255	Fine adjustment of CH 24
26	Zoom	0–255	Zoom Adjustment Narrow to Wide (7–50°)
27	Zoom Fine	0–255	Fine adjustment of CH 26
28	Shutter		Same as CH 24 in the mode “Std Pan540” (p. 20)
29	Dimmer		Same as CH 25 in the mode “Std Pan540” (p. 20)
30	Dimmer Fine	0–255	Fine adjustment of CH 29
31	Dimmer Mode		Same as CH 27 in the mode “Std Pan540” (p. 20)
32	Iris		Same as CH 36 in the mode “Ext Pan540” (p. 26)
33	Iris Fine	0–255	Fine adjustment of CH 32
34	Frost		Same as CH 29 in the mode “Std Pan540” (p. 21)
35	Frost 2		Same as CH 30 in the mode “Std Pan540” (p. 21)
36	Animation Wheel		Same as CH 31 in the mode “Std Pan540” (p. 21)
37	Animation Wheel Rotation		Same as CH 32 in the mode “Std Pan540” (p. 21)

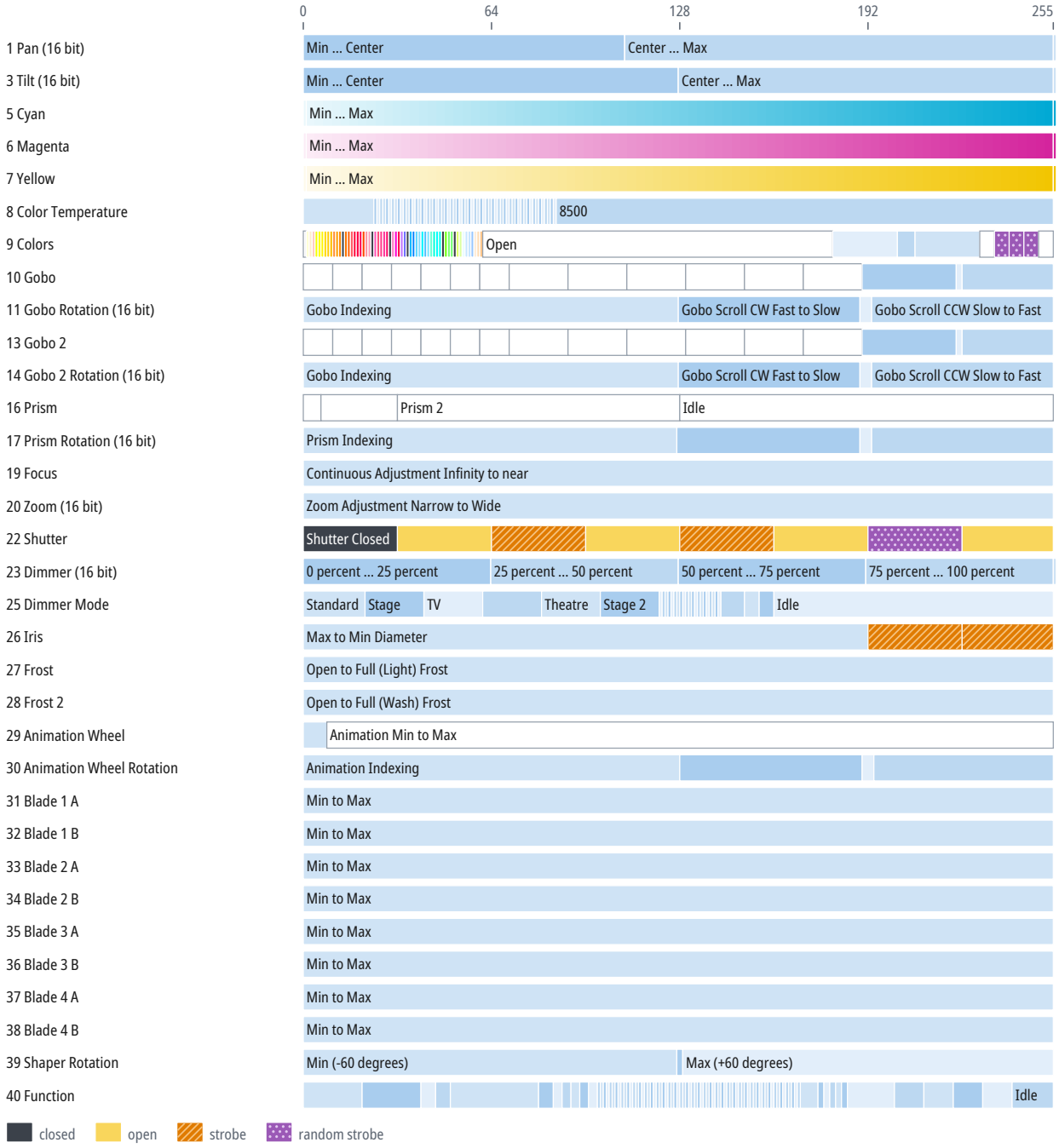
CH	Function	DMX	Description
38	Blade 1 A	0–255	Min to Max
39	Blade 1 A Fine	0–255	Fine adjustment of CH 38
40	Blade 1 B	0–255	Min to Max
41	Blade 1 B Fine	0–255	Fine adjustment of CH 40
42	Blade 2 A	0–255	Min to Max
43	Blade 2 A Fine	0–255	Fine adjustment of CH 42
44	Blade 2 B	0–255	Min to Max
45	Blade 2 B Fine	0–255	Fine adjustment of CH 44
46	Blade 3 A	0–255	Min to Max
47	Blade 3 A Fine	0–255	Fine adjustment of CH 46
48	Blade 3 B	0–255	Min to Max
49	Blade 3 B Fine	0–255	Fine adjustment of CH 48
50	Blade 4 A	0–255	Min to Max
51	Blade 4 A Fine	0–255	Fine adjustment of CH 50
52	Blade 4 B	0–255	Min to Max
53	Blade 4 B Fine	0–255	Fine adjustment of CH 52
54	Shaper Rotation		Same as CH 41 in the mode “Std Pan540” (p. 21)
55	Shaper Rotation Fine	0–255	Fine adjustment of CH 54
56	Speed Pan/Tilt		Same as CH 60 in the mode “Ext Pan540” (p. 26)
57	Function		Same as CH 61 in the mode “Ext Pan540” (p. 27)

Mode CMY Pan630

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 5 Cyan 0, CH 6 Magenta 0, CH 7 Yellow 0, CH 9 Colors 0, CH 22 Shutter 47, CH 23 Dimmer 255.

Channel functions at a glance



CH	Function	DMX	Description
1	Pan		Same as CH 1 in the mode “Std Pan630” (p. 41)
2	Pan Fine	0–255	Fine adjustment of CH 1
3	Tilt		Same as CH 3 in the mode “Std Pan540” (p. 15)
4	Tilt Fine	0–255	Fine adjustment of CH 3

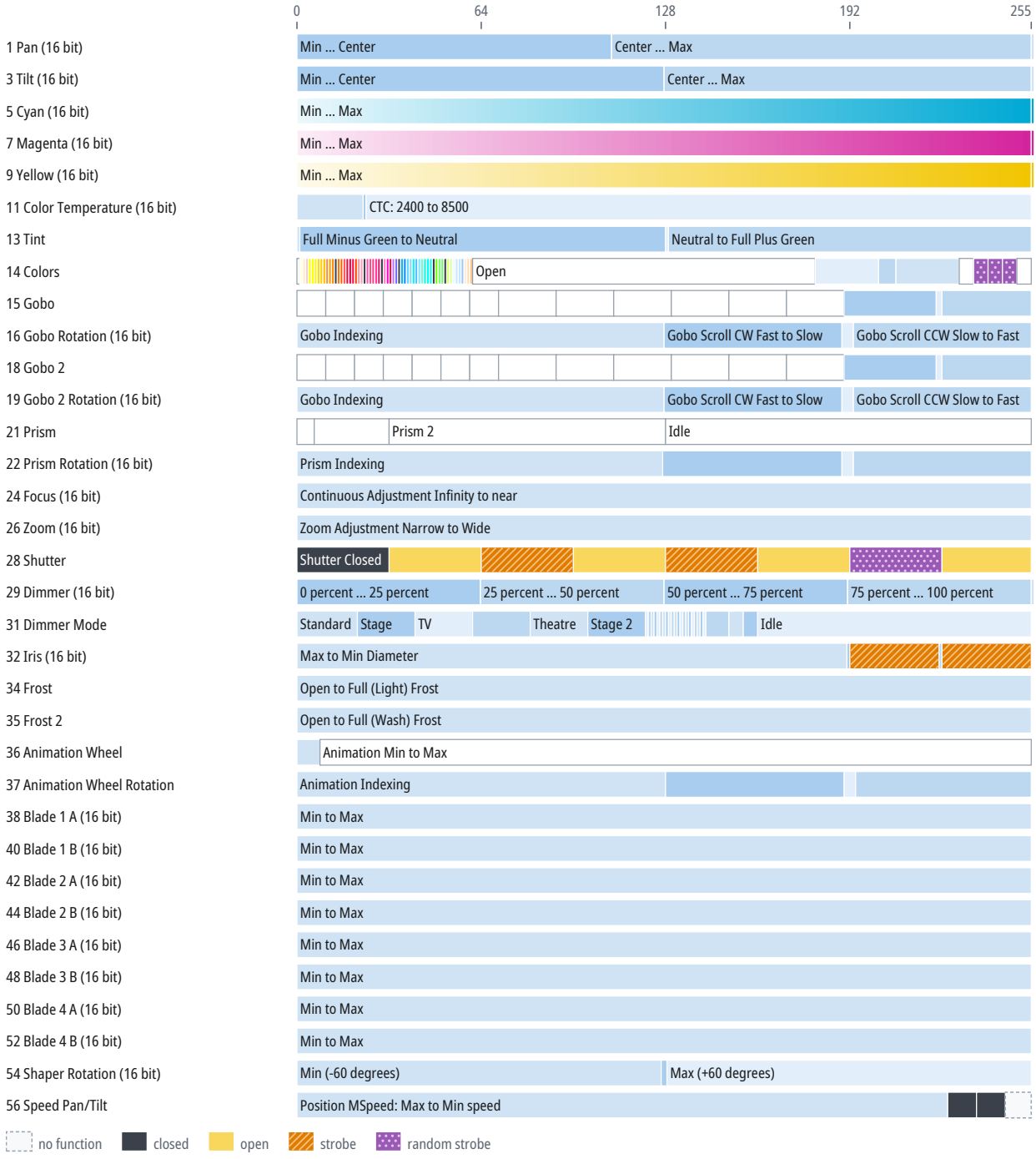
CH	Function	DMX	Description
5	Cyan		Same as CH 5 in the mode “CMY Pan540” (p. 36)
6	Magenta		Same as CH 6 in the mode “CMY Pan540” (p. 36)
7	Yellow		Same as CH 7 in the mode “CMY Pan540” (p. 36)
8	Color Temperature		Same as CH 10 in the mode “Std Pan540” (p. 15)
9	Colors		Same as CH 11 in the mode “Std Pan540” (p. 17)
10	Gobo		Same as CH 12 in the mode “Std Pan540” (p. 18)
11	Gobo Rotation		Same as CH 13 in the mode “Std Pan540” (p. 19)
12	Gobo Rotation Fine	0–255	Fine adjustment of CH 11
13	Gobo 2		Same as CH 15 in the mode “Std Pan540” (p. 19)
14	Gobo 2 Rotation		Same as CH 16 in the mode “Std Pan540” (p. 19)
15	Gobo 2 Rotation Fine	0–255	Fine adjustment of CH 14
16	Prism		Same as CH 18 in the mode “Std Pan540” (p. 19)
17	Prism Rotation		Same as CH 19 in the mode “Std Pan540” (p. 19)
18	Prism Rotation Fine	0–255	Fine adjustment of CH 17
19	Focus	0–255	Continuous Adjustment Infinity to near
20	Zoom	0–255	Zoom Adjustment Narrow to Wide (7–50°)
21	Zoom Fine	0–255	Fine adjustment of CH 20
22	Shutter		Same as CH 24 in the mode “Std Pan540” (p. 20)
23	Dimmer		Same as CH 25 in the mode “Std Pan540” (p. 20)
24	Dimmer Fine	0–255	Fine adjustment of CH 23
25	Dimmer Mode		Same as CH 27 in the mode “Std Pan540” (p. 20)
26	Iris		Same as CH 28 in the mode “Std Pan540” (p. 21)
27	Frost		Same as CH 29 in the mode “Std Pan540” (p. 21)
28	Frost 2		Same as CH 30 in the mode “Std Pan540” (p. 21)
29	Animation Wheel		Same as CH 31 in the mode “Std Pan540” (p. 21)
30	Animation Wheel Rotation		Same as CH 32 in the mode “Std Pan540” (p. 21)
31	Blade 1 A	0–255	Min to Max
32	Blade 1 B	0–255	Min to Max
33	Blade 2 A	0–255	Min to Max
34	Blade 2 B	0–255	Min to Max
35	Blade 3 A	0–255	Min to Max
36	Blade 3 B	0–255	Min to Max
37	Blade 4 A	0–255	Min to Max
38	Blade 4 B	0–255	Min to Max
39	Shaper Rotation		Same as CH 41 in the mode “Std Pan540” (p. 21)
40	Function		Same as CH 61 in the mode “Ext Pan540” (p. 27)

Mode CMY Ext Pan630

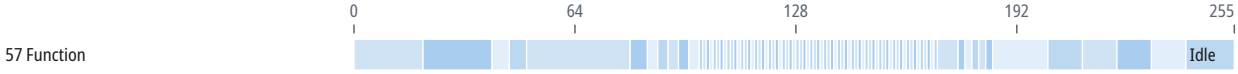
16-bit parameters use two channels, coarse and fine: value = 256 × coarse value + fine value.

The GDTF file gives these values for a console's Highlight function: CH 5 Cyan 0, CH 7 Magenta 0, CH 9 Yellow 0, CH 14 Colors 0, CH 28 Shutter 47, CH 29 Dimmer 255.

Channel functions at a glance



Channel functions at a glance



CH	Function	DMX	Description
1	Pan		Same as CH 1 in the mode “Std Pan630” (p. 41)
2	Pan Fine	0–255	Fine adjustment of CH 1
3	Tilt		Same as CH 3 in the mode “Std Pan540” (p. 15)
4	Tilt Fine	0–255	Fine adjustment of CH 3
5	Cyan		Same as CH 5 in the mode “CMY Ext Pan540” (p. 38)
6	Cyan Fine	0–255	Fine adjustment of CH 5
7	Magenta		Same as CH 7 in the mode “CMY Ext Pan540” (p. 38)
8	Magenta Fine	0–255	Fine adjustment of CH 7
9	Yellow		Same as CH 9 in the mode “CMY Ext Pan540” (p. 38)
10	Yellow Fine	0–255	Fine adjustment of CH 9
11	Color Temperature		Same as CH 15 in the mode “Ext Pan540” (p. 25)
12	Color Temperature Fine	0–255	Fine adjustment of CH 11
13	Tint		Same as CH 17 in the mode “Ext Pan540” (p. 25)
14	Colors		Same as CH 11 in the mode “Std Pan540” (p. 17)
15	Gobo		Same as CH 12 in the mode “Std Pan540” (p. 18)
16	Gobo Rotation		Same as CH 13 in the mode “Std Pan540” (p. 19)
17	Gobo Rotation Fine	0–255	Fine adjustment of CH 16
18	Gobo 2		Same as CH 15 in the mode “Std Pan540” (p. 19)
19	Gobo 2 Rotation		Same as CH 16 in the mode “Std Pan540” (p. 19)
20	Gobo 2 Rotation Fine	0–255	Fine adjustment of CH 19
21	Prism		Same as CH 18 in the mode “Std Pan540” (p. 19)
22	Prism Rotation		Same as CH 19 in the mode “Std Pan540” (p. 19)
23	Prism Rotation Fine	0–255	Fine adjustment of CH 22
24	Focus	0–255	Continuous Adjustment Infinity to near
25	Focus Fine	0–255	Fine adjustment of CH 24
26	Zoom	0–255	Zoom Adjustment Narrow to Wide (7–50°)
27	Zoom Fine	0–255	Fine adjustment of CH 26
28	Shutter		Same as CH 24 in the mode “Std Pan540” (p. 20)
29	Dimmer		Same as CH 25 in the mode “Std Pan540” (p. 20)
30	Dimmer Fine	0–255	Fine adjustment of CH 29
31	Dimmer Mode		Same as CH 27 in the mode “Std Pan540” (p. 20)
32	Iris		Same as CH 36 in the mode “Ext Pan540” (p. 26)
33	Iris Fine	0–255	Fine adjustment of CH 32
34	Frost		Same as CH 29 in the mode “Std Pan540” (p. 21)
35	Frost 2		Same as CH 30 in the mode “Std Pan540” (p. 21)
36	Animation Wheel		Same as CH 31 in the mode “Std Pan540” (p. 21)
37	Animation Wheel Rotation		Same as CH 32 in the mode “Std Pan540” (p. 21)

CH	Function	DMX	Description
38	Blade 1 A	0–255	Min to Max
39	Blade 1 A Fine	0–255	Fine adjustment of CH 38
40	Blade 1 B	0–255	Min to Max
41	Blade 1 B Fine	0–255	Fine adjustment of CH 40
42	Blade 2 A	0–255	Min to Max
43	Blade 2 A Fine	0–255	Fine adjustment of CH 42
44	Blade 2 B	0–255	Min to Max
45	Blade 2 B Fine	0–255	Fine adjustment of CH 44
46	Blade 3 A	0–255	Min to Max
47	Blade 3 A Fine	0–255	Fine adjustment of CH 46
48	Blade 3 B	0–255	Min to Max
49	Blade 3 B Fine	0–255	Fine adjustment of CH 48
50	Blade 4 A	0–255	Min to Max
51	Blade 4 A Fine	0–255	Fine adjustment of CH 50
52	Blade 4 B	0–255	Min to Max
53	Blade 4 B Fine	0–255	Fine adjustment of CH 52
54	Shaper Rotation		Same as CH 41 in the mode “Std Pan540” (p. 21)
55	Shaper Rotation Fine	0–255	Fine adjustment of CH 54
56	Speed Pan/Tilt		Same as CH 60 in the mode “Ext Pan540” (p. 26)
57	Function		Same as CH 61 in the mode “Ext Pan540” (p. 27)

10 Technical specifications

Parameter	Value
Light	
Light source	LED
LED power	480 W
Luminous flux	15,000 lm
Color temperature	6,000 K
Color rendering index (CRI)	92
Optics	
Zoom	7–50°
Movement	
Pan	630°
Tilt	270°
Control	
RDM	yes (manufacturer ID 0x22A6, device model ID 0x0043)
Dimensions and construction	
Weight	36 kg
Operating environment	
Operating temperature	-10 to 45 °C

Speeds and ranges

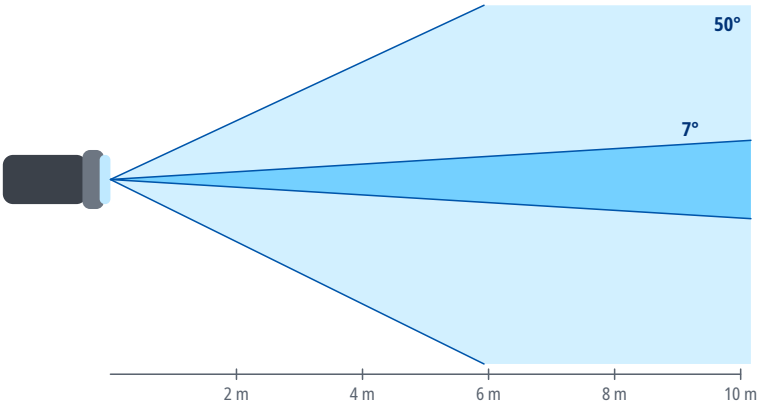
Parameter	Value
Color temperature range	2400–8500 K
Strobe frequency	1–10 Hz
Color wheel rotation	up to 7200 °/s (1200 rpm)
Gobo wheel 1 rotation	up to 360 °/s (60 rpm)
Gobo wheel 2 rotation	up to 360 °/s (60 rpm)
Prism rotation	up to 360 °/s (60 rpm)
Animation wheel rotation	up to 360 °/s (60 rpm)

Dimensions

weight 36 kg



Spot diameter



Distance	Ø 7°	Ø 50°
2 m	0.24 m	1.9 m
4 m	0.49 m	3.7 m
6 m	0.73 m	5.6 m
8 m	0.98 m	7.5 m
10 m	1.2 m	9.3 m
15 m	1.8 m	14 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.