DMX REFERENCE

X-profile IP

Brighter

Manufacturer	Brighter
GDTF file	Brighter_X-profile_IP_145135.gdtf
GDTF revision	X-Profile IP · 2026-06-02
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1 About this manual

This document describes the X-profile IP by Brighter. It was compiled from the GDTF file Brighter_X-profile_IP_145135.gdtf from the GDTF-Share library.

File revision: “X-Profile IP”.

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 Brighter; product names and trademarks belong to their owners.

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

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

2 Quick reference

Parameter	Value
Power consumption	850 W
Weight	29 kg

DMX modes

Mode	Channels	Units in one universe	First start addresses
33Ch	33	15	1, 34, 67, 100, ...
43Ch	43	11	1, 44, 87, 130, ...

No light? Check these channels

- 33Ch: CH 20 Shutter at 250–255 “Open”; CH 21 Dimmer above 0
- 43Ch: CH 30 Shutter at 250–255 “Open”; CH 31 Dimmer above 0


Read the manual before use


Risk of electric shock


Do not stare into the light


Indoor use only

3 Safety instructions


Read the manual before use


Risk of electric shock


Do not stare into the light


Indoor use only

⚠ WARNING

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

⚠ WARNING

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

⚠ WARNING

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

⚠ CAUTION

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

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

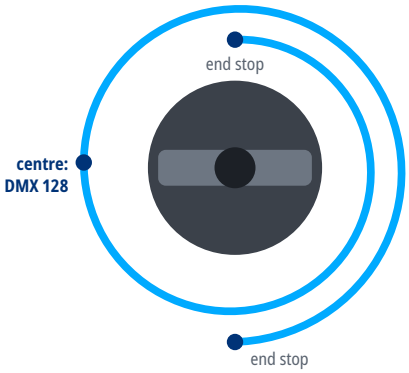
> ⚠ **WARNING**
>
> - The moving parts of the device (for example the head or arms) can move quickly and unexpectedly at any time – after power-on, during a reset, or on a command from the controller.
> - Keep yourself and any objects out of the range of movement. While the device is switched on, do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

4 Product description

Range of movement

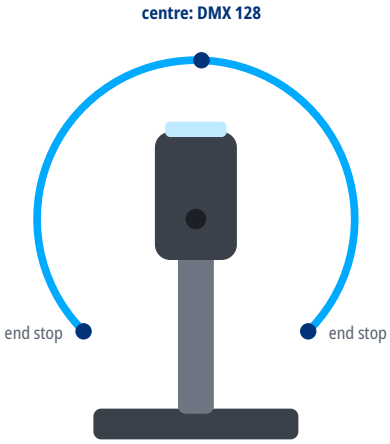
Pan 540°

top view



Tilt 270°

side view



5 Installation

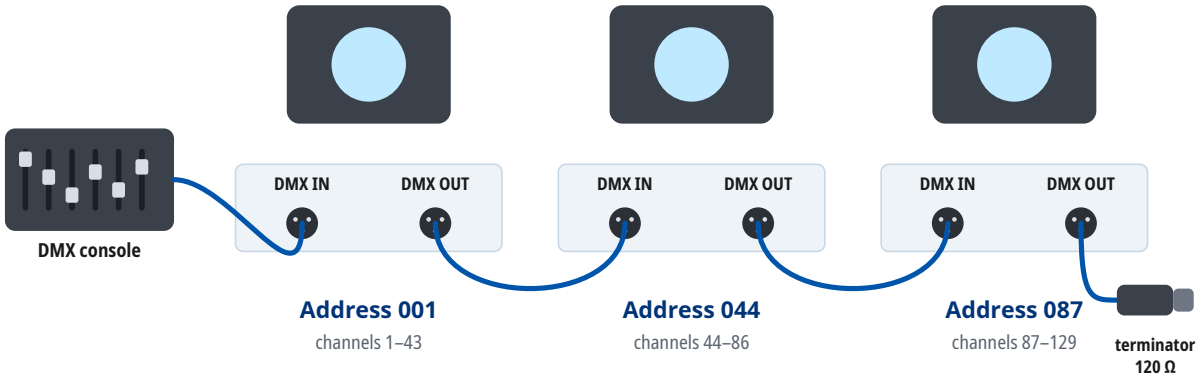
⚠ **WARNING**

- Rigging must be carried out only by qualified persons in accordance with applicable regulations, in particular those for work at height.
- The supporting structure and fixings must safely carry the weight of all suspended devices; verify their load capacity in advance.
- Weight of the device: 29 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 43Ch: every unit occupies 43 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 “43Ch”: 43.
- 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 “43Ch”, you can use, for example, the start addresses 1, 44, 87, 130.
- 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

	33Ch 33 channels	43Ch 43 channels
Pan / Tilt	1, 3	1, 3
Dimmer	21	31
Shutter / strobe	20	30
Color mixing	6–8	6–8
Color temperature	9	9
Color wheel	11	11
Gobo wheel		13, 14
Gobo rotation		15
Prism		21–24
Frost	15	25
Zoom	16	26
Focus	18	28
Iris	13	19
Animation wheel		17, 18

Gobo wheel 1

1
Static Gobo: Open
DMX 0–5

2 
Gobo 1
DMX 6–16

3 
Gobo 2
DMX 17–27

4 
Gobo 3
DMX 28–38

5 
Gobo 4
DMX 39–49

6 
Gobo 5
DMX 50–60

7 
Gobo 6
DMX 61–71

8 
Gobo 7
DMX 72–82

9 
Gobo 8
DMX 83–94

Gobo wheel 2

1
Rot Gobo: Open
DMX 0–7

2 
Gobo 1
DMX 8–20

3 
Gobo 2
DMX 21–33

4 
Gobo 3
DMX 34–46

5 
Gobo 4
DMX 47–59

6 
Gobo 5
DMX 60–72

7 
Gobo 6
DMX 73–85

8 
Gobo 7
DMX 86–99

Animation wheel

1 Open
DMX 0–9

2 Linear Insert
DMX 10–192

Color wheel

1 White
DMX 116–120

2 Red
DMX 121–130

3 Blue
DMX 131–140

4 Yellow
DMX 141–150

5 Green
DMX 151–160

6 Cyan
DMX 161–170

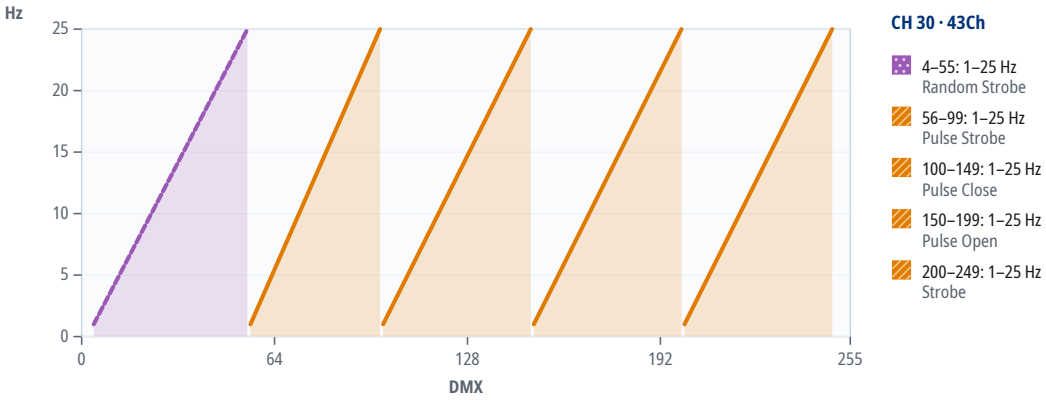
Prism

1 Pri Off
CH 21: DMX 0–7

2 4 facets
Pri On
CH 21: DMX 8–255

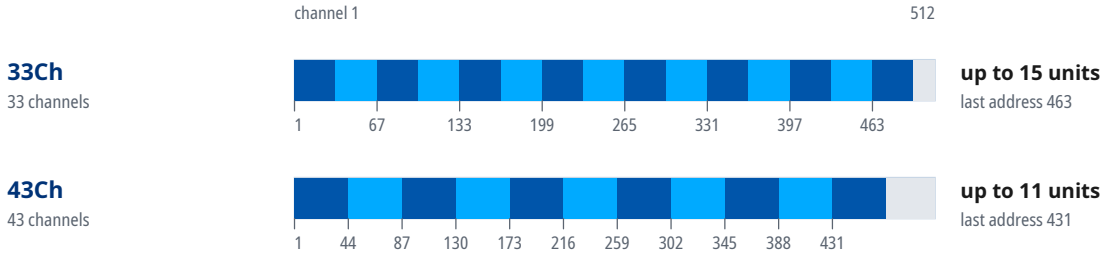
3 4 facets
Pri On
CH 23: DMX 8–255

Strobe rate



9 DMX channels

Units in one DMX universe



Start addresses of 20 units in the mode “43Ch”

Unit	Start address	Unit	Start address	Unit	Start address	Unit	Start address
1	1	6	216	11	431	16	U2 · 173
2	44	7	259	12	U2 · 1	17	U2 · 216
3	87	8	302	13	U2 · 44	18	U2 · 259
4	130	9	345	14	U2 · 87	19	U2 · 302
5	173	10	388	15	U2 · 130	20	U2 · 345

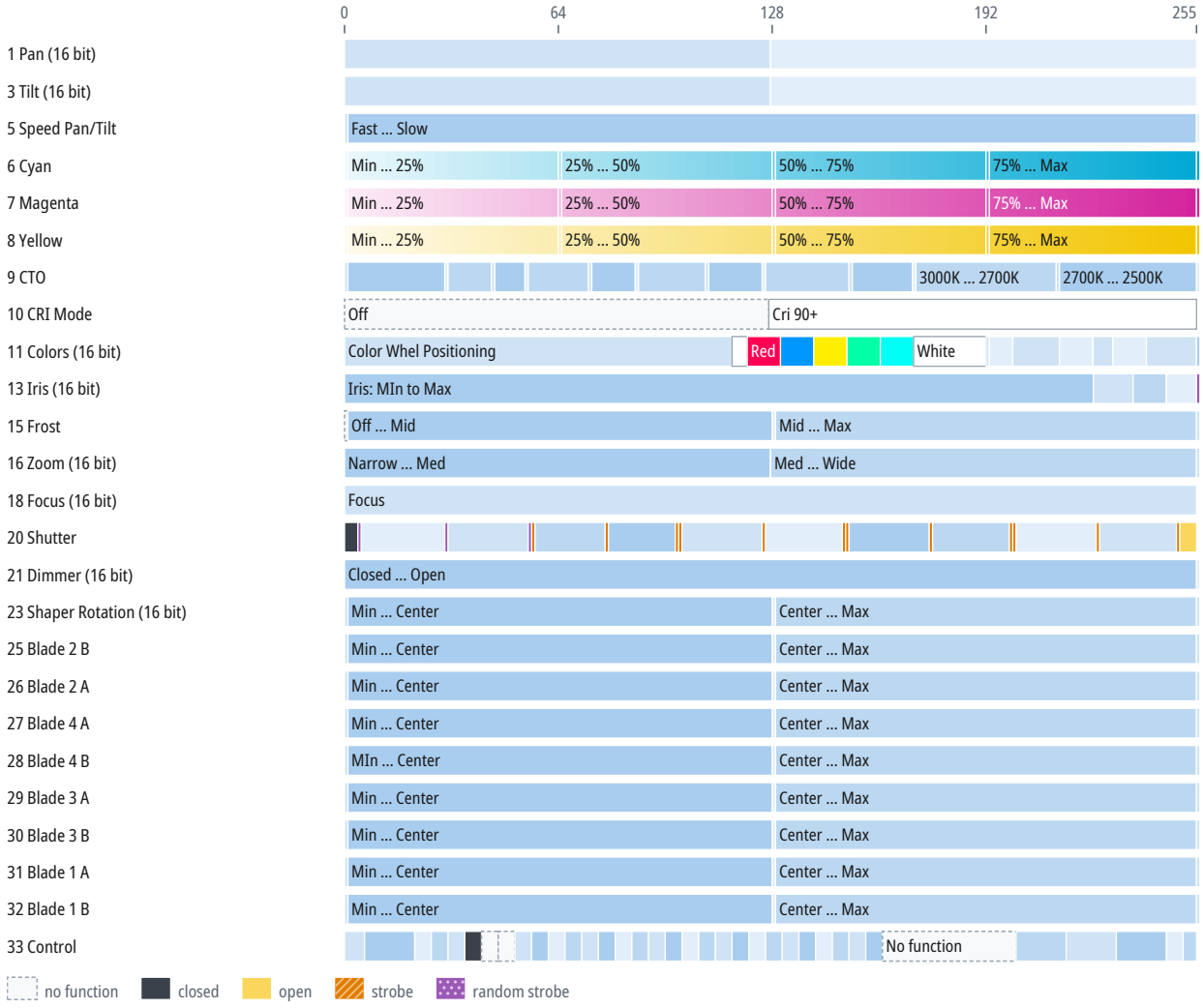
Where a DMX universe is full, the next units continue in the next universe: “U2 · 1” is address 1 in the second universe, counted from the universe of the first unit.

Mode 33Ch

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

If the device receives DMX in this mode but gives no light, check these channels: CH 20 Shutter at 250–255 “Open”; CH 21 Dimmer above 0. The GDTF file gives these values for a console's Highlight function: CH 6 Cyan 0, CH 7 Magenta 0, CH 8 Yellow 0, CH 9 CTO 0, CH 11 Colors 0, CH 20 Shutter 255, CH 21 Dimmer 255.

Channel functions at a glance



CH	Function	DMX	Description
1	Pan	0–127	Pan
		128	Home
		128–255	Pan
2	Pan Fine	0–255	Fine adjustment of CH 1
3	Tilt	0–127	Tilt
		128	Home
		128–255	Tilt
4	Tilt Fine	0–255	Fine adjustment of CH 3
5	Speed Pan/Tilt	0	Fast

CH	Function	DMX	Description
5	Speed Pan/Tilt (continued)	1–254	Fast ... Slow
		255	Slow
6	Cyan	0	Min
		1–63	Min ... 25%
		64	25%
		65–127	25% ... 50%
		128	50%
		129–191	50% ... 75%
		192	75%
		193–254	75% ... Max
		255	Max
7	Magenta	0	Min
		1–63	Min ... 25%
		64	25%
		65–127	25% ... 50%
		128	50%
		129–191	50% ... 75%
		192	75%
		193–254	75% ... Max
		255	Max
8	Yellow	0	Min
		1–63	Min ... 25%
		64	25%
		65–127	25% ... 50%
		128	50%
		129–191	50% ... 75%
		192	75%
		193–254	75% ... Max
		255	Max
9	CTO	0	7000K
		1–29	7000K ... 6500K
		30	6500K
		31–43	6500K ... 6000K
		44	6000K
		45–53	6000K ... 5600K
		54	5600K
		55–72	5600K ... 5000K
		73	5000K
		74–86	5000K ... 4600K
		87	4600K
		88–107	4600K ... 4000K
		108	4000K

CH	Function	DMX	Description
9	CTO (continued)	109–124	4000K ... 3600K
		125	3600K
		126–150	3600K ... 3200K
		151	3200K
		152–169	3200K ... 3000K
		170	3000K
		171–212	3000K ... 2700K
		213	2700K
		214–254	2700K ... 2500K
		255	2500K
10	CRI Mode	0–126	Off
		127–255	Cri 90+
11	Colors	0–116	Color Whel Positioning
		116–120	White
		121–130	Red
		131–140	Blue
		141–150	Yellow
		151–160	Green
		161–170	Cyan
		171–192	White
		192–193	Color Index
		193–200	CCW Fast ... CCW Med
		200–214	CCW Med ... CCW Slow
		214–224	CCW Slow ... Stop
		224	Wheel Spin: Stop
		224–230	Stop ... CW Slow
		230–240	CW Slow ... CW Med
		240–255	CW Med ... CW Fast
		255	CW Fast
12	Colors Fine	0–255	Fine adjustment of CH 11
13	Iris	0	Iris: Open
		0–224	Iris: MIn to Max
		225	Iris: Max
		225–236	Iris Pulse Open: Slow ... Fast
		236	Iris Pulse Open: Fast
		236–246	Iris Pulse Close: Slow ... Fast
		246	Iris Pulse Close: Fast
		246–255	Iris Strobe Random: Slow ... Fast
		255	Iris Strobe Random: Fast
14	Iris Fine	0–255	Fine adjustment of CH 13
15	Frost	0	Off
		1–127	Off ... Mid

CH	Function	DMX	Description
15	Frost (continued)	128	Mid
		129–254	Mid ... Max
		255	Max
16	Zoom	0–127	Narrow ... Med
		127	Med
		128–255	Med ... Wide
		255	Wide
17	Zoom Fine	0–255	Fine adjustment of CH 16
18	Focus	0–255	Focus
19	Focus Fine	0–255	Fine adjustment of CH 18
20	Shutter	0–3	Closed
		4	Random Strobe: Min
		5–29	Random Strobe: Min ... Med
		30	Random Strobe: Med
		31–54	Random Strobe: Med ... Max
		55	Random Strobe: Max
		56	Pulse Strobe: Min
		57–77	Pulse Strobe: Min ... Med
		78	Pulse Strobe: Med
		79–98	Pulse Strobe: Med ... Max
		99	Pulse Strobe: Max
		100	Pulse Close: Min
		101–124	Pulse Close: Min ... Med
		125	Pulse Close: Med
		126–148	Pulse Close: Med ... Max
		149	Pulse Close: Max
		150	Pulse Open: Min
		151–174	Pulse Open: Min ... Med
		175	Pulse Open: Med
		176–198	Pulse Open: Med ... Max
		199	Pulse Open: Max
		200	Strobe: Min
		201–224	Strobe: Min ... Med
		225	Strobe: Med
		226–248	Strobe: Med ... Max
		249	Strobe: Max
		250–255	Open
21	Dimmer	0–255	Closed ... Open
		255	Open
22	Dimmer Fine	0–255	Fine adjustment of CH 21
23	Shaper Rotation	0–1	Min
		1–128	Min ... Center

CH	Function	DMX	Description
23	Shaper Rotation (continued)	128–129	Center
		129–255	Center … Max
		255	Max
24	Shaper Rotation Fine	0–255	Fine adjustment of CH 23
25	Blade 2 B	0	Min
		1–127	Min … Center
		128	Center
		129–254	Center … Max
		255	Max
26	Blade 2 A	0	Min
		1–127	Min … Center
		128	Center
		129–254	Center … Max
		255	Max
27	Blade 4 A	0	Min
		1–127	Min … Center
		128	Center
		129–254	Center … Max
		255	Max
28	Blade 4 B	0	MIn
		1–127	MIn … Center
		128	Center
		129–254	Center … Max
		255	Max
29	Blade 3 A	0	Min
		1–127	Min … Center
		128	Center
		129–254	Center … Max
		255	Max
30	Blade 3 B	0	Min
		1–127	Min … Center
		128	Center
		129–254	Center … Max
		255	Max
31	Blade 1 A	0	Min
		1–127	Min … Center
		128	Center
		129–254	Center … Max
		255	Max
32	Blade 1 B	0	Min
		1–127	Min … Center
		128	Center

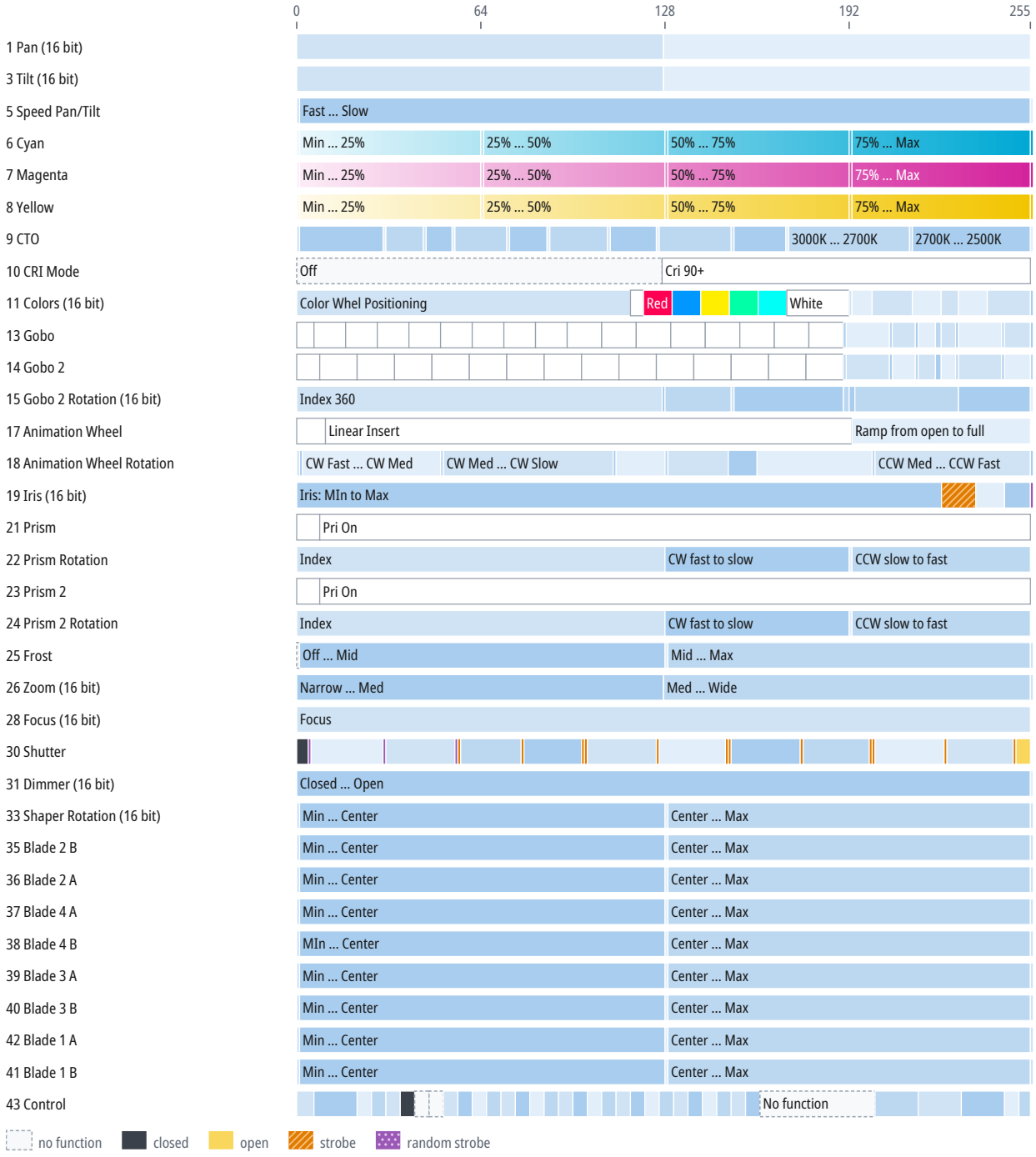
CH	Function	DMX	Description
32	Blade 1 B (continued)	129–254	Center ... Max
		255	Max
33	Control	0–5	Menu Set
		6–20	Pan Invert On
		21–25	Pan Invert Off
		26–30	Tilt Invert On
		31–35	Tilt Invert Off
		36–40	Blackout when move
		41–45	Blackout Mode: off
		46–50	No function
		51–55	Fan Super Silent
		56–60	Fan Silent
		61–65	Fan Auto
		66–70	Fan Full
		71–75	Linear
		76–80	Square
		81–85	I-Square
		86–90	S-Shape
		91–95	400Hz
		96–100	1200Hz
		101–105	2000Hz
		106–110	4000Hz
		111–115	6000Hz
		116–120	8000Hz
		121–125	16kHz
		126–130	24kHz
		131–135	Backlight On
		136–140	Backlight for 15s
		141–145	Backlight for 30s
		146–150	Backlight for 60s
		151–155	Dimmer Speed
		156–160	Dimmer Fast
		161–200	No function
		201–215	Beam Reset
		216–230	P/T Reset
		231–245	Overall reset
		246–250	Focus on blades Off
		251–255	Focus on blades On

Mode 43Ch

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

If the device receives DMX in this mode but gives no light, check these channels: CH 30 Shutter at 250–255 “Open”; CH 31 Dimmer above 0. The GDTF file gives these values for a console's Highlight function: CH 6 Cyan 0, CH 7 Magenta 0, CH 8 Yellow 0, CH 9 CTO 0, CH 11 Colors 0, CH 30 Shutter 255, CH 31 Dimmer 255.

Channel functions at a glance



CH	Function	DMX	Description
1	Pan		Same as CH 1 in the mode “33Ch” (p. 11)
2	Pan Fine	0–255	Fine adjustment of CH 1
3	Tilt		Same as CH 3 in the mode “33Ch” (p. 11)
4	Tilt Fine	0–255	Fine adjustment of CH 3
5	Speed Pan/Tilt		Same as CH 5 in the mode “33Ch” (p. 11)
6	Cyan		Same as CH 6 in the mode “33Ch” (p. 12)
7	Magenta		Same as CH 7 in the mode “33Ch” (p. 12)
8	Yellow		Same as CH 8 in the mode “33Ch” (p. 12)
9	CTO		Same as CH 9 in the mode “33Ch” (p. 12)
10	CRI Mode		Same as CH 10 in the mode “33Ch” (p. 13)
11	Colors		Same as CH 11 in the mode “33Ch” (p. 13)
12	Colors Fine	0–255	Fine adjustment of CH 11
13	Gobo	0–5	Static Gobo: Open
		6–16	Gobo 1
		17–27	Gobo 2
		28–38	Gobo 3
		39–49	Gobo 4
		50–60	Gobo 5
		61–71	Gobo 6
		72–82	Gobo 7
		83–93	Gobo 8
		94–105	Gobo 8 Shake (0–5 Hz)
		106–117	Gobo 7 Shake (0–5 Hz)
		118–129	Gobo 6 Shake (0–5 Hz)
		130–141	Gobo 5 Shake (0–5 Hz)
		142–153	Gobo 4 Shake (0–5 Hz)
		154–165	Gobo 3 Shake (0–5 Hz)
		166–177	Gobo 2 Shake (0–5 Hz)
		178–189	Gobo 1 Shake (0–5 Hz)
		190	CCW Fast
		191–205	CCW Fast ... CCW Med
		206	CCW Med
		207–214	CCW Med ... CCW Slow
		215	CCW Slow
		216–221	CCW Slow ... Stop
		222–223	Static Wheel Spin: Stop
		224–228	Stop ... CW Slow
		229	CW Slow
		230–244	CW Slow ... CW Med
		245	CW Med

CH	Function	DMX	Description
13	Gobo (continued)	246–254	CW Med ... CW Fast
		255	CW Fast
14	Gobo 2	0–7	Rot Gobo: Open
		8–20	Gobo 1
		21–33	Gobo 2
		34–46	Gobo 3
		47–59	Gobo 4
		60–72	Gobo 5
		73–85	Gobo 6
		86–98	Gobo 7
		99–111	Gobo 7 Shake (0–5 Hz)
		112–124	Gobo 6 Shake (0–5 Hz)
		125–137	Gobo 5 Shake (0–5 Hz)
		138–150	Gobo 4 Shake (0–5 Hz)
		151–163	Gobo 3 Shake (0–5 Hz)
		164–176	Gobo 2 Shake (0–5 Hz)
		177–189	Gobo 1 Shake (0–5 Hz)
		190	CCW Fast
		191–205	CCW Fast ... CCW Med
		206	CCW Med
		207–214	CCW Med ... CCW Slow
		215	CCW Slow
		216–221	CCW Slow ... Stop
		222–223	Rot Gobo Spin: Stop
		224–228	Stop ... CW Slow
		229	CW Slow
		230–244	CW Slow ... CW Med
		245	CW Med
		246–254	CW Med ... CW Fast
		255	CW Fast
15	Gobo 2 Rotation	0–127	Index 360
		127–128	Index
		128–151	CW Fast ... CW Med
		151–152	CW Med
		152–190	CW Med ... CW Slow
		190–192	CW Slow ... Stop
		192	Gobo 2 Rotation: Stop
		192–194	Stop ... CCW Slow
		194–230	CCW Slow ... CCW Med
		230–255	CCW Med ... CCW Fast
		255	CCW Fast

CH	Function	DMX	Description
16	Gobo 2 Rotation Fine	0–255	Fine adjustment of CH 15
17	Animation Wheel	0–9	Open
		10–192	Linear Insert
		193–255	Ramp from open to full
18	Animation Wheel Rotation	0	Animation Wheel 1 Pos 1
		1	CW Fast
		2–49	CW Fast ... CW Med
		50	CW Med
		51–109	CW Med ... CW Slow
		110	CW Slow
		111–127	CW Slow ... Stop
		128	Stop
		129–149	Stop ... CWW Slow
		150–159	CWW Slow
		160–199	CWW Slow ... CCW Med
		200	CCW Med
		201–254	CCW Med ... CCW Fast
		255	CCW Fast
19	Iris	0	Iris: Open
		0–224	Iris: MIn to Max
		225	Iris: Max
		225–236	Iris Pulse Open: Slow
		236	Iris Pulse Open: Fast
		236–246	Iris Pulse Close: Slow ... Fast
		246	Iris Pulse Close: Fast
		246–255	Iris Strobe Random: Slow ... Fast
		255	Iris Strobe Random: Fast
20	Iris Fine	0–255	Fine adjustment of CH 19
21	Prism	0–7	Pri Off
		8–255	Pri On
22	Prism Rotation	0–127	Index (360°)
		128–191	CW fast to slow (180–0.1 °/s)
		192	Prism Rotation: Stop
		193–255	CCW slow to fast (0.1–180 °/s)
23	Prism 2	0–7	Pri Off
		8–255	Pri On
24	Prism 2 Rotation	0–127	Index (360°)
		128–191	CW fast to slow (180–0.1 °/s)
		192	Prism Rotation: Stop
		193–255	CCW slow to fast (0.1–180 °/s)
25	Frost		Same as CH 15 in the mode “33Ch” (p. 13)

CH	Function	DMX	Description
26	Zoom		Same as CH 16 in the mode “33Ch” (p. 14)
27	Zoom Fine	0–255	Fine adjustment of CH 26
28	Focus	0–255	Focus
29	Focus Fine	0–255	Fine adjustment of CH 28
30	Shutter		Same as CH 20 in the mode “33Ch” (p. 14)
31	Dimmer		Same as CH 21 in the mode “33Ch” (p. 14)
32	Dimmer Fine	0–255	Fine adjustment of CH 31
33	Shaper Rotation		Same as CH 23 in the mode “33Ch” (p. 14)
34	Shaper Rotation Fine	0–255	Fine adjustment of CH 33
35	Blade 2 B		Same as CH 25 in the mode “33Ch” (p. 15)
36	Blade 2 A		Same as CH 26 in the mode “33Ch” (p. 15)
37	Blade 4 A		Same as CH 27 in the mode “33Ch” (p. 15)
38	Blade 4 B		Same as CH 28 in the mode “33Ch” (p. 15)
39	Blade 3 A		Same as CH 29 in the mode “33Ch” (p. 15)
40	Blade 3 B		Same as CH 30 in the mode “33Ch” (p. 15)
41	Blade 1 B		Same as CH 32 in the mode “33Ch” (p. 15)
42	Blade 1 A		Same as CH 31 in the mode “33Ch” (p. 15)
43	Control		Same as CH 33 in the mode “33Ch” (p. 16)

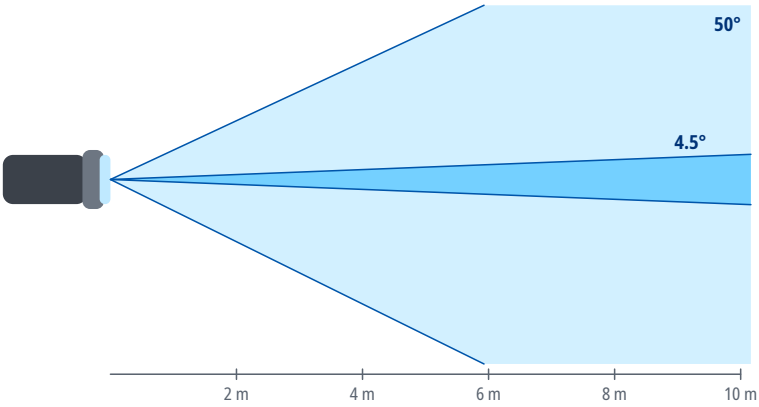
10 Technical specifications

Parameter	Value
Light	
Light source	LED
LED power	800 W
Luminous flux	39,870 lm
Color temperature	7,000 K
Color rendering index (CRI)	70
Optics	
Zoom	4.5–50°
Movement	
Pan	540°
Tilt	270°
Control	
DMX connection	3-pin XLR IN/OUT, 5-pin XLR IN/OUT
RJ45 connectors	RJ45 IN/OUT
RDM	yes (manufacturer ID 0x09A4, device model ID 0x0800)
Electrical	
Power supply	100–240 V, 50/60 Hz
Power consumption	850 W
Power connectors	powerCON TRUE1 IN/OUT
Dimensions and construction	
Weight	29 kg
Operating environment	
Operating temperature	0 to 40 °C

Speeds and ranges

Parameter	Value
Color temperature range	2500–7000 K
Strobe frequency	1–25 Hz
LED frequency	400–24000 Hz
Color wheel rotation	up to 200 °/s (33 rpm)
Gobo wheel 1 rotation	up to 188 °/s (31 rpm)
Gobo wheel 2 rotation	up to 188 °/s (31 rpm)
Gobo 2 rotation	up to 56.6 °/s (9.4 rpm)
Prism rotation	up to 180 °/s (30 rpm)

Spot diameter



Distance	Ø 4.5°	Ø 50°
2 m	0.16 m	1.9 m
4 m	0.31 m	3.7 m
6 m	0.47 m	5.6 m
8 m	0.63 m	7.5 m
10 m	0.79 m	9.3 m
15 m	1.2 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.