DMX REFERENCE

FINE 1680LH BSWF

FINE LINE 1680LH BSWF

Fine Art



Manufacturer	Fine Art
GDTF file	Fine_Art_FINE_1680LH_BSWF_115720.gdtf
GDTF revision	20251030 · 2025-10-30
Generated	2026-11-24

Contents

1 About this manual 2
2 Quick reference 2
3 Safety instructions 3
4 Product description 4
5 Installation 4
6 Connections 5
7 Operation 5
8 Functions at a glance 6
9 DMX channels 8
Mode EXTN 9
Mode 16BIT 16
Mode STND 18
10 Technical specifications 20
11 Maintenance and cleaning 21
12 Troubleshooting 21
13 Disposal 21

1 About this manual

This document describes the FINE LINE 1680LH BSWF by Fine Art. It was compiled from the GDTF file Fine_Art_FINE_1680LH_BSWF_115720.gdtf from the GDTF-Share library.

File revision: “20251030”.

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 Fine Art; 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	42.5 kg

DMX modes

Mode	Channels	Units in one universe	First start addresses
EXTN	45	11	1, 46, 91, 136, ...
16BIT	41	12	1, 42, 83, 124, ...
STND	34	15	1, 35, 69, 103, ...



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

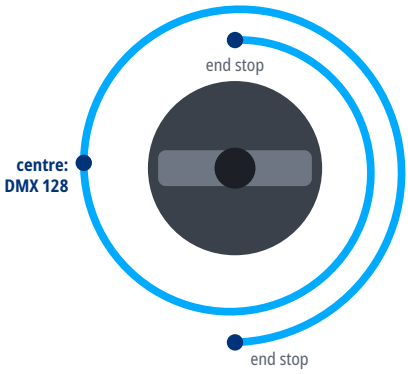
Description in the GDTF file

“The FINE LINE 1680LH BSWF by Caiyi is a versatile LED moving head computer light, integrating beam, wash, pattern, and cutting capabilities into a single fixture.”

Range of movement

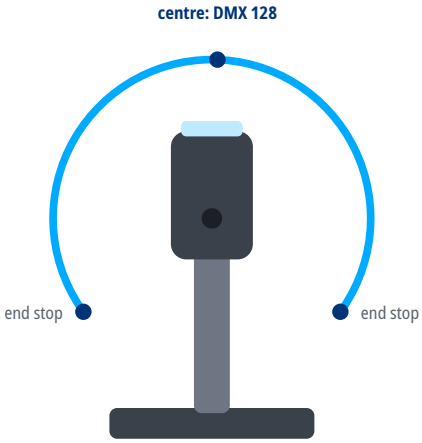
Pan 540°

top view



Tilt 252°

side view



5 Installation

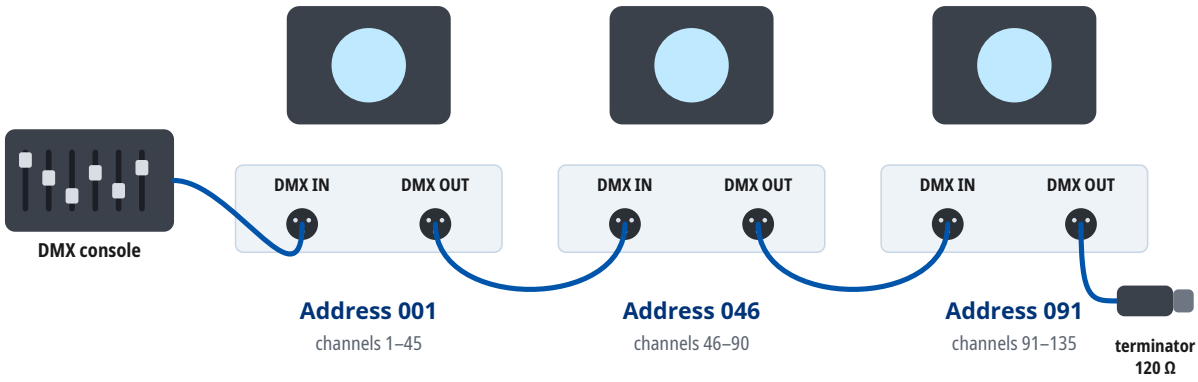
⚠ WARNING

- 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: 42.5 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 EXTN: every unit occupies 45 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 “EXTN”: 45.
- 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 “EXTN”, you can use, for example, the start addresses 1, 46, 91, 136.
- The DMX mode set on the device must match the fixture profile (personality) used in the controller.

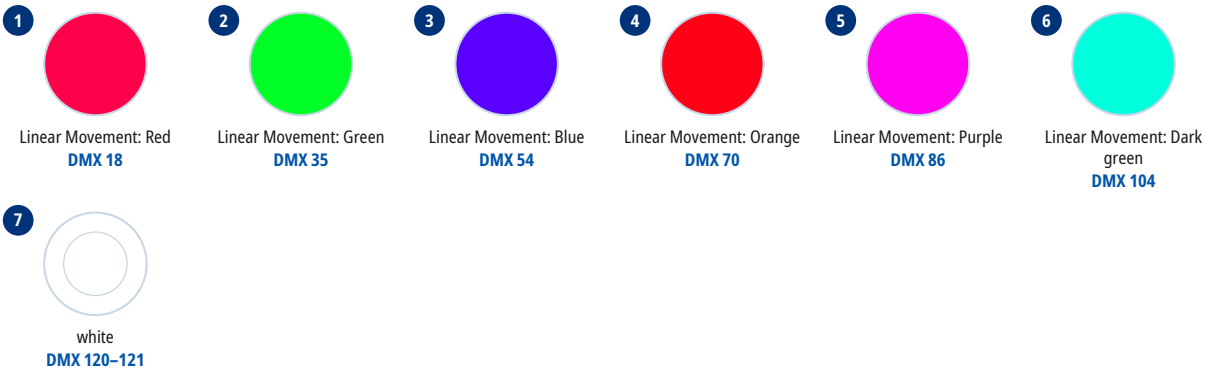
8 Functions at a glance

Functions in each DMX mode

	EXTN 45 channels	16BIT 41 channels	STND 34 channels
Pan / Tilt	4, 6	4, 6	4, 6
Dimmer	2, 41	2, 41	2, 34
Shutter / strobe	1	1	1
Color mixing	13–15	13–15	12–14
Color temperature	16	16	15
Color wheel	17	17	16
Gobo wheel	8	8	8
Gobo rotation	9 *	9 *	9 *
Prism	19, 20	19, 20	18, 19
Frost	27, 28	27, 28	22, 23
Zoom	23	23	21
Focus	21, 25, 26	21, 25, 26	20
Iris	29	29	24
Animation wheel	12	12	11
Effects / macros	39	39	

* The function works only when another channel switches it on; see the DMX table.

Color wheel



Gobo wheel

1
Gobo 1: 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 
G6
DMX 60–72

Animation wheel

1 
animation

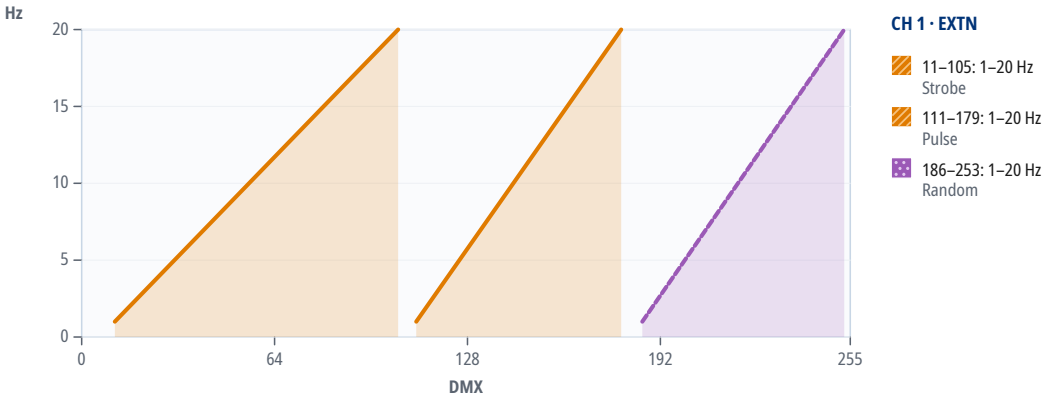
Prism

1
Open
DMX 0–11

2 
4 facets
4F Linear
DMX 139–255

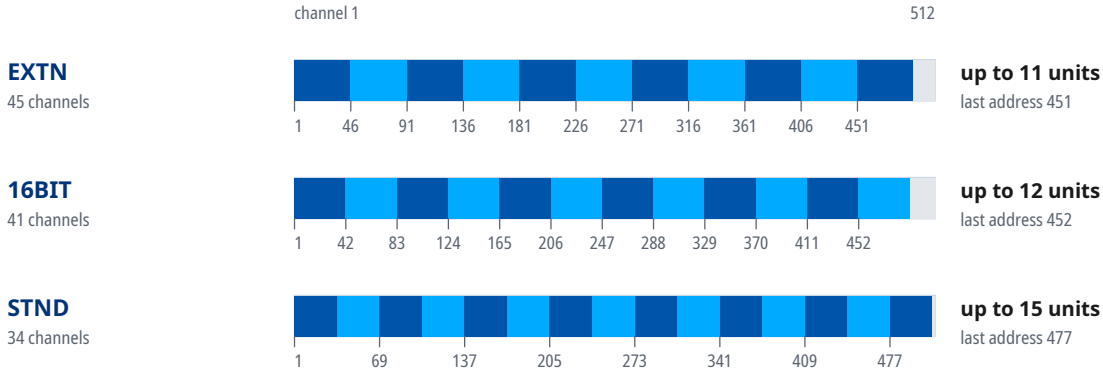
3 
4 facets
Prism1 (4F Circular)
DMX 11–139

Strobe rate



9 DMX channels

Units in one DMX universe



Start addresses of 20 units in the mode “EXTN”

Unit	Start address	Unit	Start address	Unit	Start address	Unit	Start address
1	1	6	226	11	451	16	U2 · 181
2	46	7	271	12	U2 · 1	17	U2 · 226
3	91	8	316	13	U2 · 46	18	U2 · 271
4	136	9	361	14	U2 · 91	19	U2 · 316
5	181	10	406	15	U2 · 136	20	U2 · 361

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 EXTN

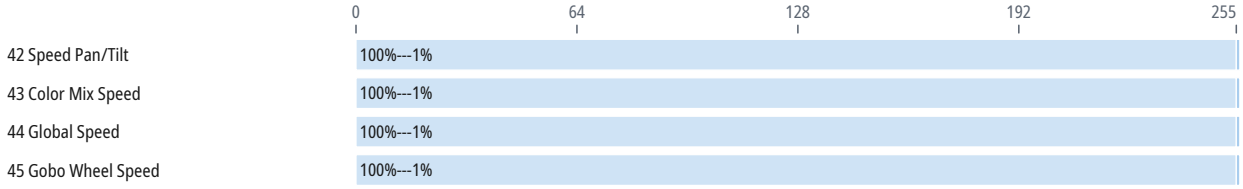
16-bit parameters use two channels, coarse and fine: value = 256 × coarse value + fine value.

The GDTF file gives these values for a console's Highlight function: CH 1 Shutter 6, CH 2 Dimmer 255.

Channel functions at a glance



Channel functions at a glance



CH	Function	DMX	Description
1	Shutter	0–5	Close
		6–10	Open1
		11	Min Strobe
		12–104	Min Strobe ... Max Strobe
		105	Max Strobe
		106–110	Open2
		111	Min Pulse
		112–178	Min Pulse ... Max Pulse
		179	Max Pulse
		180–185	Open3
		186	Min Random
		187–252	Min Random ... Max Random
		253	Max Random
		254–255	Open4
2	Dimmer	0–255	Min ... Max
		255	Max
3	Dimmer Fine	0–255	Fine adjustment of CH 2
4	Pan	0–127	Min ... Center
		127	Center
		128–255	Center ... Max
		255	Max
5	Pan Fine	0–255	Fine adjustment of CH 4
6	Tilt	0–127	Min ... Center
		127	Center
		128–255	Center ... Max
		255	Max
7	Tilt Fine	0–255	Fine adjustment of CH 6
8	Gobo	0–9	Gobo 1: Open
		10–19	Gobo 1
		20–29	Gobo 2
		30–39	Gobo 3
		40–49	Gobo 4
		50–59	Gobo 5
		60–71	Gobo 6
		72–94	Gobo 1 Shake (0.4–6.6 Hz)

CH	Function	DMX	Description
8	Gobo (continued)	95–117	Gobo 2 Shake (0.4–6.6 Hz)
		118–140	Gobo 3 Shake (0.4–6.6 Hz)
		141–163	Gobo 4 Shake (0.4–6.6 Hz)
		164–186	Gobo 5 Shake (0.4–6.6 Hz)
		187–209	Gobo 6 Shake (0.4–6.6 Hz)
		210–231	CW (15.6–10 °/s)
		232–233	Gobo 1 Wheel Spin: Stop
		234–255	CCW (10–15.6 °/s)
9	Gobo Rotation		When CH 8 is 10–209:
		0–127	Gobo 1 Pos: Min ... Max
		127	Gobo 1 Pos: Max
		128–190	CW (145–8.7 °/s)
		191–192	Gobo 1 Pos Rotate: Stop
		193–255	CCW (8.7–145 °/s)
10	Gobo Rotation Fine	0–255	Fine adjustment of CH 9
12	Animation Wheel Rotation Speed	0–2	Stop 1
		3–126	CW (75–2.8 °/s)
		127–129	Stop 2
		130–253	CCW (2.8–75 °/s)
		254–255	Stop 3
13	Cyan	0	Min
		1–126	Min ... Center
		127	Center
		128–254	Center ... Max
		255	Max
14	Magenta	0	Min
		1–126	Min ... Center
		127	Center
		128–254	Center ... Max
		255	Max
15	Yellow	0	Min
		1–126	Min ... Center
		127	Center
		128–254	Center ... Max
		255	Max
16	CTO	0	Max
		1–254	Max ... Min
		255	Min
17	Colors	0–17	Linear Movement
		18	Linear Movement: Red
		19–34	Red ... Green
		35	Linear Movement: Green

CH	Function	DMX	Description
17	Colors (continued)	36–53	Green ... Blue
		54	Linear Movement: Blue
		55–69	Blue ... Orange
		70	Linear Movement: Orange
		71–85	Orange ... Purple
		86	Linear Movement: Purple
		87–103	Purple ... Dark green
		104	Linear Movement: Dark green
		105–119	Dark green ... white
		120	White
		121–126	Full color: Red
		127–132	Full color: Green
		133–138	Full color: Blue
		139–144	Full color: Orange
		145–150	Full color: Purple
		151–156	Full color: Dark green
		157–160	White
		161–200	CW (46.7–3.67 °/s)
		201–203	Color 1 Spin: Stop
		204–243	CCW (3.67–46.7 °/s)
		244–247	Random>>>
		248–251	Random>>
		252–255	Random>
19	Prism	0–10	Open
		11–138	4F Circular
		139–255	4F Linear
20	Prism Rotation	0	0
		1–126	0 ... 360
		127	360
		128–190	CW (78–2.32 °/s)
		191–192	Prism 1 Pos Rotate: Stop
		193–255	CCW (2.32–78 °/s)
21	Focus	0–127	Infinity ... Center
		127–255	Center ... Near
		255	Near
22	Focus Fine	0–255	Fine adjustment of CH 21
23	Zoom	0–127	Max ... Center
		127–255	Center ... Min
		255	Min
24	Zoom Fine	0–255	Fine adjustment of CH 23
25	Auto Focus Distance	0–5	Closed
		6–31	Reserved 1

CH	Function	DMX	Description
25	Auto Focus Distance (continued)	32–57	8 M
		58–83	12 M
		84–109	16 M
		110–255	Reserved 2
26	Auto Focus Adjustment	0–127	Focus Negative
		128	None
		129–255	Focus Positive
27	Frost	0	Open
		1–254	Open ... Frost 1
		255	Frost 1
28	Frost 2	0	Open
		1–254	Open ... Frost 2
		255	Frost 2
29	Iris	0	Iris: Max
		1–64	Iris: Max ... Center
		65	Iris: Center
		66–130	Iris: Center ... Min
		131	Iris: Min
		132–151	Iris pulse open (0.1–5 Hz)
		152–171	PluseClosed (0.1–5 Hz)
		172–191	PluseOpen (0.1–5 Hz)
		192–255	Reserved
30	Blade 1 A	0	Min
		1–126	Min ... Center
		127	Center
		128–254	Center ... Max
		255	Max
31	Blade 1 Rotation	0	Min
		1–126	Min ... Center
		127	Center
		128–254	Center ... Max
		255	Max
32	Blade 2 A	0	Min
		1–126	Min ... Center
		127	Center
		128–254	Center ... Max
		255	Max
33	Blade 2 Rotation	0	Min
		1–126	Min ... Center
		127	Center
		128–254	Center ... Max
		255	Max

CH	Function	DMX	Description
34	Blade 3 A	0	Min
		1–126	Min … Center
		127	Center
		128–254	Center … Max
		255	Max
35	Blade 3 Rotation	0	Min
		1–126	Min … Center
		127	Center
		128–254	Center … Max
		255	Max
36	Blade 4 A	0	Min
		1–126	Min … Center
		127	Center
		128–254	Center … Max
		255	Max
37	Blade 4 Rotation	0	Min
		1–126	Min … Center
		127	Center
		128–254	Center … Max
		255	Max
38	Shaper Rotation	0	Min
		1–126	Min … Center
		127	Center
		128–254	Center … Max
		255	Max
39	Shaper Macros	0–9	None
		10–19	Square
		20–29	Rectangle
		30–39	Reserve 1
		40–49	Diamond
		50–59	Ladder-Shaped
		60–255	Reserve 2
40	CRI Mode	0–5	None
		6–10	R9-70
		11–15	R9-80
		16–20	R9-90
		21–255	Reserve
41	Control	0–9	None
		10–14	FixtureReset
		15–29	BeamReset
		30–34	PT Reset
		35–49	Control Reserved: Reverved

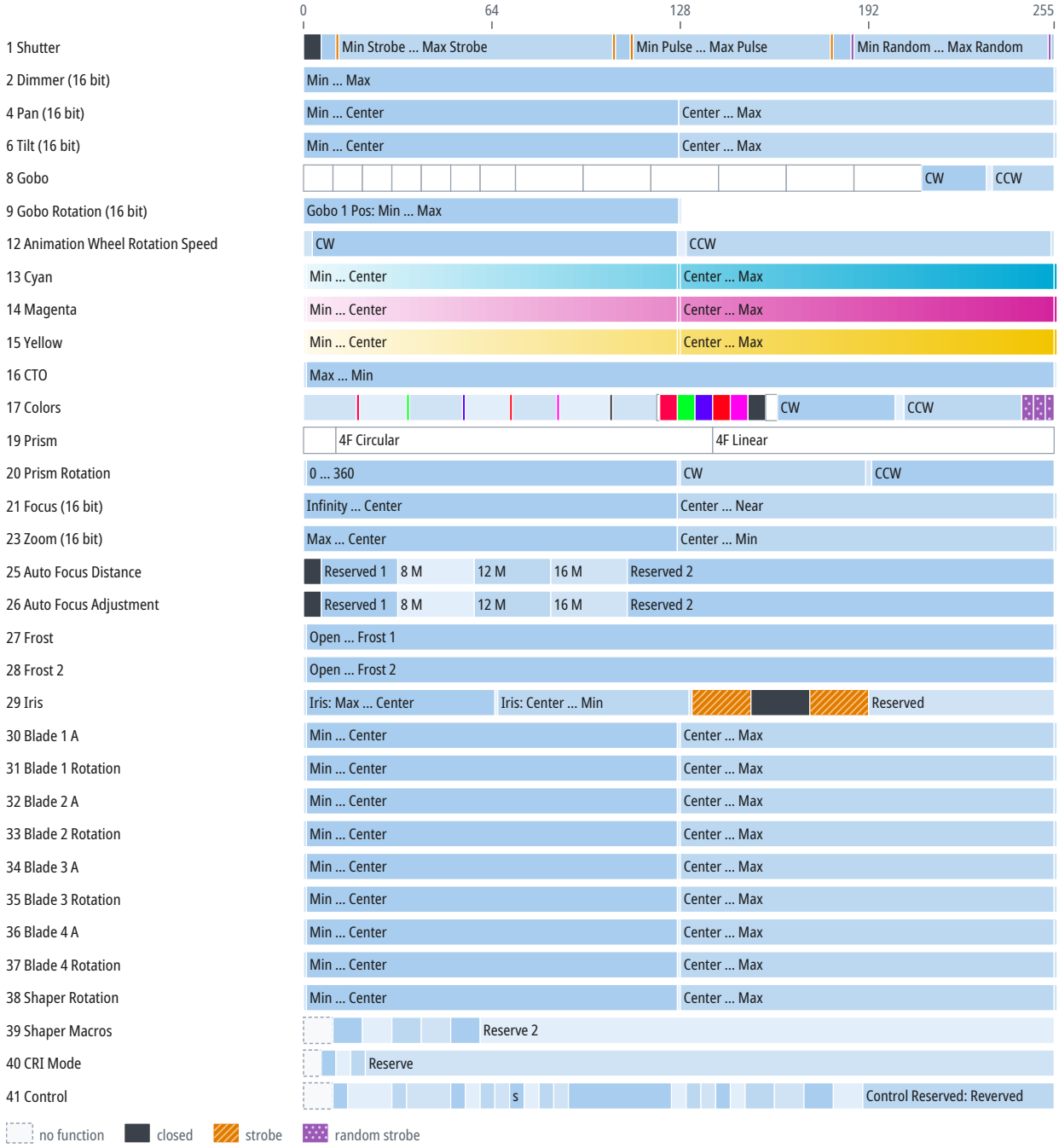
CH	Function	DMX	Description
41	Control (continued)	50–54	Freq 1_2Khz
		55–59	Freq 2_4Khz
		60–64	Freq 12Khz
		65–69	Freq 24Khz
		70–74	s
		75–79	Default
		80–84	Parabolic
		85–89	Empty Channel Set
		90–124	Control Reserved: Reverved
		125–129	Full power
		130–134	Standard mode
		135–139	Theater mode
		140–144	CMY S Linear
		145–149	CMY Parabola Linear
		150–159	CCI On
		160–169	CCI Off
		170–179	Fast dimmer
		180–189	Slow dimmer
		190–255	Control Reserved: Reverved
42	Speed Pan/Tilt	0–254	100%---1%
		255	Follow
43	Color Mix Speed	0–254	100%---1%
		255	Follow
44	Global Speed	0–254	100%---1%
		255	Follow
45	Gobo Wheel Speed	0–254	100%---1%
		255	Follow

Mode 16BIT

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

The GDTF file gives these values for a console's Highlight function: CH 1 Shutter 6, CH 2 Dimmer 255.

Channel functions at a glance



CH	Function	DMX	Description
1	Shutter		Same as CH 1 in the mode “EXTN” (p. 10)
2	Dimmer		Same as CH 2 in the mode “EXTN” (p. 10)
3	Dimmer Fine	0–255	Fine adjustment of CH 2
4	Pan		Same as CH 4 in the mode “EXTN” (p. 10)

CH	Function	DMX	Description
5	Pan Fine	0–255	Fine adjustment of CH 4
6	Tilt		Same as CH 6 in the mode “EXTN” (p. 10)
7	Tilt Fine	0–255	Fine adjustment of CH 6
8	Gobo		Same as CH 8 in the mode “EXTN” (p. 10)
9	Gobo Rotation		Same as CH 9 in the mode “EXTN” (p. 11)
10	Gobo Rotation Fine	0–255	Fine adjustment of CH 9
12	Animation Wheel Rotation Speed		Same as CH 12 in the mode “EXTN” (p. 11)
13	Cyan		Same as CH 13 in the mode “EXTN” (p. 11)
14	Magenta		Same as CH 14 in the mode “EXTN” (p. 11)
15	Yellow		Same as CH 15 in the mode “EXTN” (p. 11)
16	CTO		Same as CH 16 in the mode “EXTN” (p. 11)
17	Colors		Same as CH 17 in the mode “EXTN” (p. 11)
19	Prism		Same as CH 19 in the mode “EXTN” (p. 12)
20	Prism Rotation		Same as CH 20 in the mode “EXTN” (p. 12)
21	Focus		Same as CH 21 in the mode “EXTN” (p. 12)
22	Focus Fine	0–255	Fine adjustment of CH 21
23	Zoom		Same as CH 23 in the mode “EXTN” (p. 12)
24	Zoom Fine	0–255	Fine adjustment of CH 23
25	Auto Focus Distance		Same as CH 25 in the mode “EXTN” (p. 12)
26	Auto Focus Adjustment	0–5	Closed
		6–31	Reserved 1
		32–57	8 M
		58–83	12 M
		84–109	16 M
		110–255	Reserved 2
27	Frost		Same as CH 27 in the mode “EXTN” (p. 13)
28	Frost 2		Same as CH 28 in the mode “EXTN” (p. 13)
29	Iris		Same as CH 29 in the mode “EXTN” (p. 13)
30	Blade 1 A		Same as CH 30 in the mode “EXTN” (p. 13)
31	Blade 1 Rotation		Same as CH 31 in the mode “EXTN” (p. 13)
32	Blade 2 A		Same as CH 32 in the mode “EXTN” (p. 13)
33	Blade 2 Rotation		Same as CH 33 in the mode “EXTN” (p. 13)
34	Blade 3 A		Same as CH 34 in the mode “EXTN” (p. 14)
35	Blade 3 Rotation		Same as CH 35 in the mode “EXTN” (p. 14)
36	Blade 4 A		Same as CH 36 in the mode “EXTN” (p. 14)
37	Blade 4 Rotation		Same as CH 37 in the mode “EXTN” (p. 14)
38	Shaper Rotation		Same as CH 38 in the mode “EXTN” (p. 14)
39	Shaper Macros		Same as CH 39 in the mode “EXTN” (p. 14)
40	CRI Mode		Same as CH 40 in the mode “EXTN” (p. 14)
41	Control		Same as CH 41 in the mode “EXTN” (p. 14)

Mode STND

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

The GDTF file gives these values for a console's Highlight function: CH 1 Shutter 6, CH 2 Dimmer 255.

Channel functions at a glance



CH	Function	DMX	Description
1	Shutter		Same as CH 1 in the mode “EXTN” (p. 10)
2	Dimmer		Same as CH 2 in the mode “EXTN” (p. 10)
3	Dimmer Fine	0–255	Fine adjustment of CH 2
4	Pan		Same as CH 4 in the mode “EXTN” (p. 10)
5	Pan Fine	0–255	Fine adjustment of CH 4
6	Tilt		Same as CH 6 in the mode “EXTN” (p. 10)
7	Tilt Fine	0–255	Fine adjustment of CH 6
8	Gobo		Same as CH 8 in the mode “EXTN” (p. 10)

CH	Function	DMX	Description
9	Gobo Rotation		When CH 8 is 10–209:
		0	Gobo 1 Pos: Min
		1–126	Gobo 1 Pos: Min ... Max
		127	Gobo 1 Pos: Max
		128–190	CW (145–8.7 °/s)
		191–192	Gobo 1 Pos Rotate: Stop
		193–255	CCW (8.7–145 °/s)
11	Animation Wheel Rotation Speed		Same as CH 12 in the mode “EXTN” (p. 11)
12	Cyan		Same as CH 13 in the mode “EXTN” (p. 11)
13	Magenta		Same as CH 14 in the mode “EXTN” (p. 11)
14	Yellow		Same as CH 15 in the mode “EXTN” (p. 11)
15	CTO		Same as CH 16 in the mode “EXTN” (p. 11)
16	Colors		Same as CH 17 in the mode “EXTN” (p. 11)
18	Prism		Same as CH 19 in the mode “EXTN” (p. 12)
19	Prism Rotation		Same as CH 20 in the mode “EXTN” (p. 12)
20	Focus	0	Infinity
		1–126	Infinity ... Center
		127	Center
		128–254	Center ... Near
		255	Near
21	Zoom	0	Max
		1–126	Max ... Center
		127	Center
		128–254	Center ... Min
		255	Min
22	Frost		Same as CH 27 in the mode “EXTN” (p. 13)
23	Frost 2		Same as CH 28 in the mode “EXTN” (p. 13)
24	Iris		Same as CH 29 in the mode “EXTN” (p. 13)
25	Blade 1 A		Same as CH 30 in the mode “EXTN” (p. 13)
26	Blade 1 Rotation		Same as CH 31 in the mode “EXTN” (p. 13)
27	Blade 2 A		Same as CH 32 in the mode “EXTN” (p. 13)
28	Blade 2 Rotation		Same as CH 33 in the mode “EXTN” (p. 13)
29	Blade 3 A		Same as CH 34 in the mode “EXTN” (p. 14)
30	Blade 3 Rotation		Same as CH 35 in the mode “EXTN” (p. 14)
31	Blade 4 A		Same as CH 36 in the mode “EXTN” (p. 14)
32	Blade 4 Rotation		Same as CH 37 in the mode “EXTN” (p. 14)
33	Shaper Rotation		Same as CH 38 in the mode “EXTN” (p. 14)
34	Control		Same as CH 41 in the mode “EXTN” (p. 14)

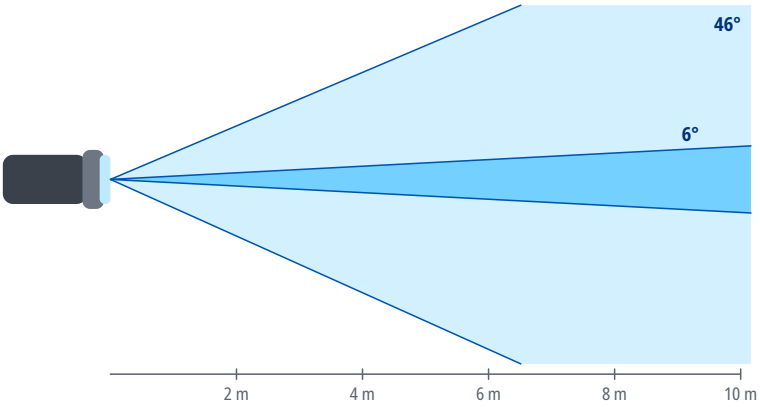
10 Technical specifications

Parameter	Value
Light	
Light source	LED
LED power	1,600 W
Luminous flux	30,000 lm
Color temperature	6,250 K
Color rendering index (CRI)	95
Optics	
Zoom	6–46°
Movement	
Pan	540°
Tilt	252°
Dimensions and construction	
Weight	42.5 kg
Operating environment	
Operating temperature	-10 to 40 °C

Speeds and ranges

Parameter	Value
Color temperature range	2300–6000 K
Strobe frequency	1–20 Hz
Color wheel rotation	up to 46.7 °/s (7.8 rpm)
Gobo wheel rotation	up to 15.6 °/s (2.6 rpm)
Gobo rotation	up to 145 °/s (24 rpm)
Prism rotation	up to 78 °/s (13 rpm)
Animation wheel rotation	up to 75 °/s (12 rpm)

Spot diameter



Distance	Ø 6°	Ø 46°
2 m	0.21 m	1.7 m
4 m	0.42 m	3.4 m
6 m	0.63 m	5.1 m
8 m	0.84 m	6.8 m
10 m	1 m	8.5 m
15 m	1.6 m	12.7 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.