DMX REFERENCE

SUPER SHARK BEAM

LIGHT SKY



Manufacturer	LIGHT SKY
GDTF file	LIGHT_SKY_SUPER_SHARK_BEAM_94907.gdtf
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1 About this manual

This document describes the SUPER SHARK BEAM by LIGHT SKY. It was compiled from the GDTF file LIGHT_SKY_SUPER_SHARK_BEAM_94907.gdtf from the GDTF-Share library.

File revision: “V1.9”.

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 LIGHT SKY; 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	41.5 kg

DMX modes

Mode	Channels	Units in one universe	First start addresses
18CH	18	28	1, 19, 37, 55, ...
15CH	15	34	1, 16, 31, 46, ...

No light? Check these channels

- 18CH: CH 6 Dimmer above 0; CH 7 Shutter at 104–107, 208–212 or 252–255 “Open”
- 15CH: CH 6 Dimmer above 0; CH 7 Shutter at 104–107, 208–212 or 252–255 “Open”


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

Range of movement



5 Installation

⚠ WARNING

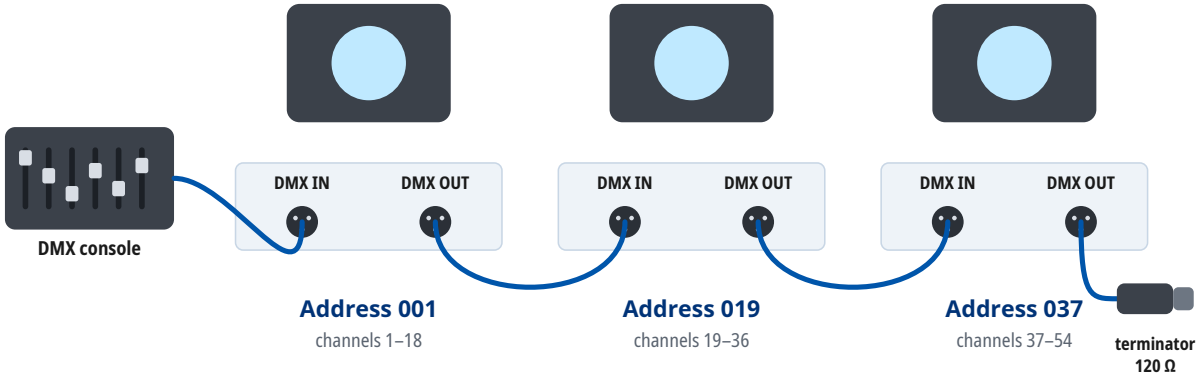
- Rigging must be carried out only by qualified persons in accordance with applicable regulations, in particular those for work at height.
- The supporting structure and fixings must safely carry the weight of all suspended devices; verify their load capacity in advance.
- Weight of the device: 41.5 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 18CH: every unit occupies 18 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

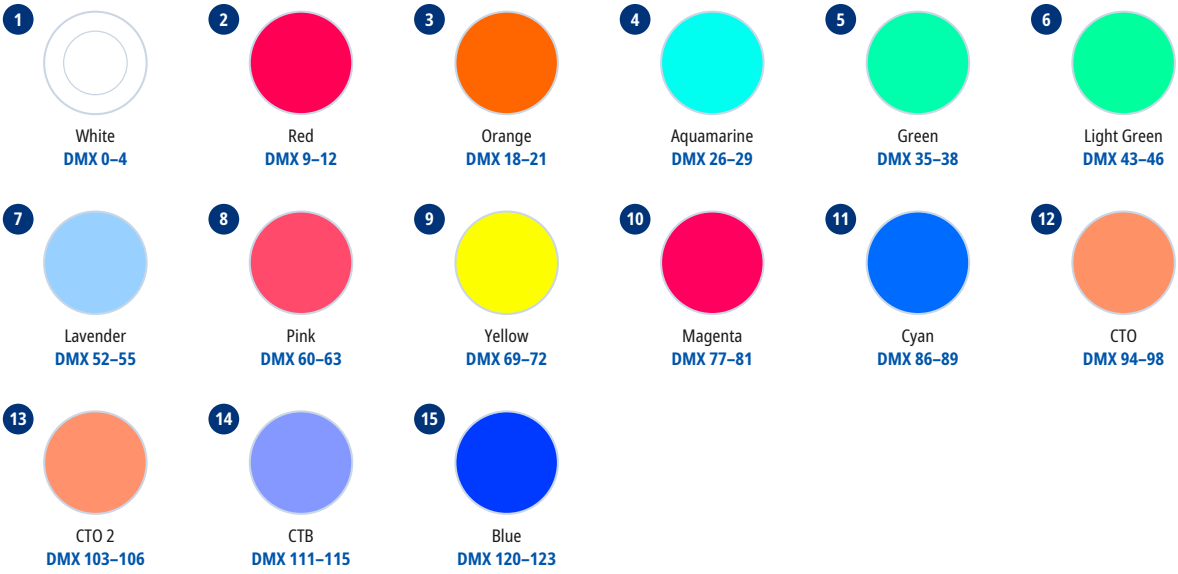
- The device occupies as many consecutive channels in the DMX universe as the selected DMX mode uses, starting at the set start address.
- Number of channels occupied in the DMX mode “18CH”: 18.
- Choose start addresses so that the channels of individual devices do not overlap and the last occupied channel does not exceed 512. Devices with the same start address and mode respond identically.
- For several devices in a row in the DMX mode “18CH”, you can use, for example, the start addresses 1, 19, 37, 55.
- 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

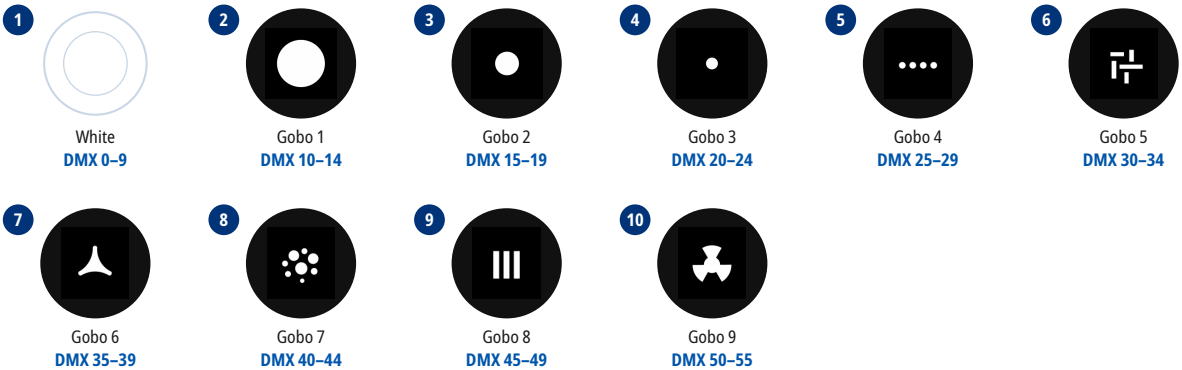
Functions in each DMX mode

	18CH 18 channels	15CH 15 channels
Pan / Tilt	1, 3	1, 3
Dimmer	6	6
Shutter / strobe	7	7
Color mixing	8–10	
Color wheel	11	8
Gobo wheel	12	9
Prism	13–16	10–13
Frost	17	14
Focus	18	15

Color wheel



Gobo wheel



Prism 1

1

Closed
DMX 0–127

2



8 facets
8 Prism
DMX 128–255

Prism 2

1

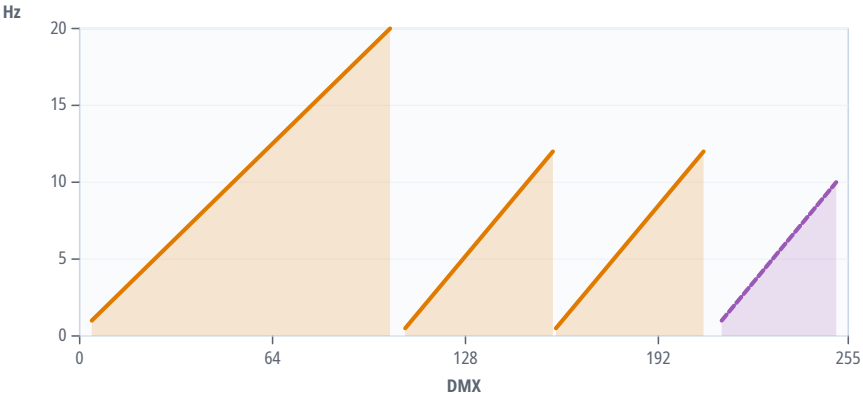
Closed
DMX 0–127

2



24 facets
24 Prism
DMX 128–255

Strobe rate

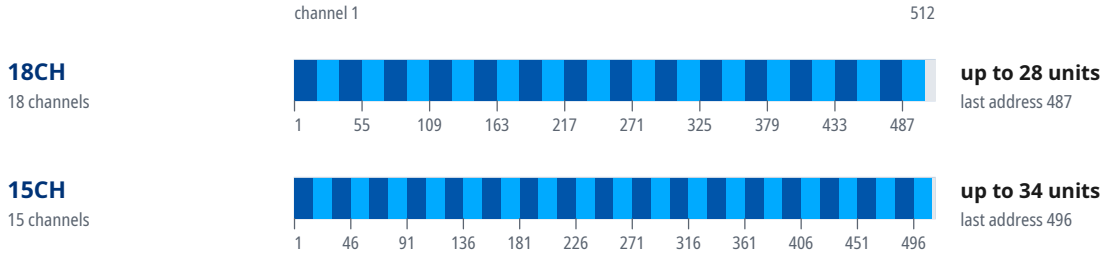


CH 7 · 18CH

- 4–103: 1–20 Hz
  Strobe
- 108–157: 0.5–12 Hz
  PulseOpen
- 158–207: 0.5–12 Hz
  PulseClose
- 213–251: 1–10 Hz
  StrobeRandom

9 DMX channels

Units in one DMX universe



Start addresses of 20 units in the mode “18CH”

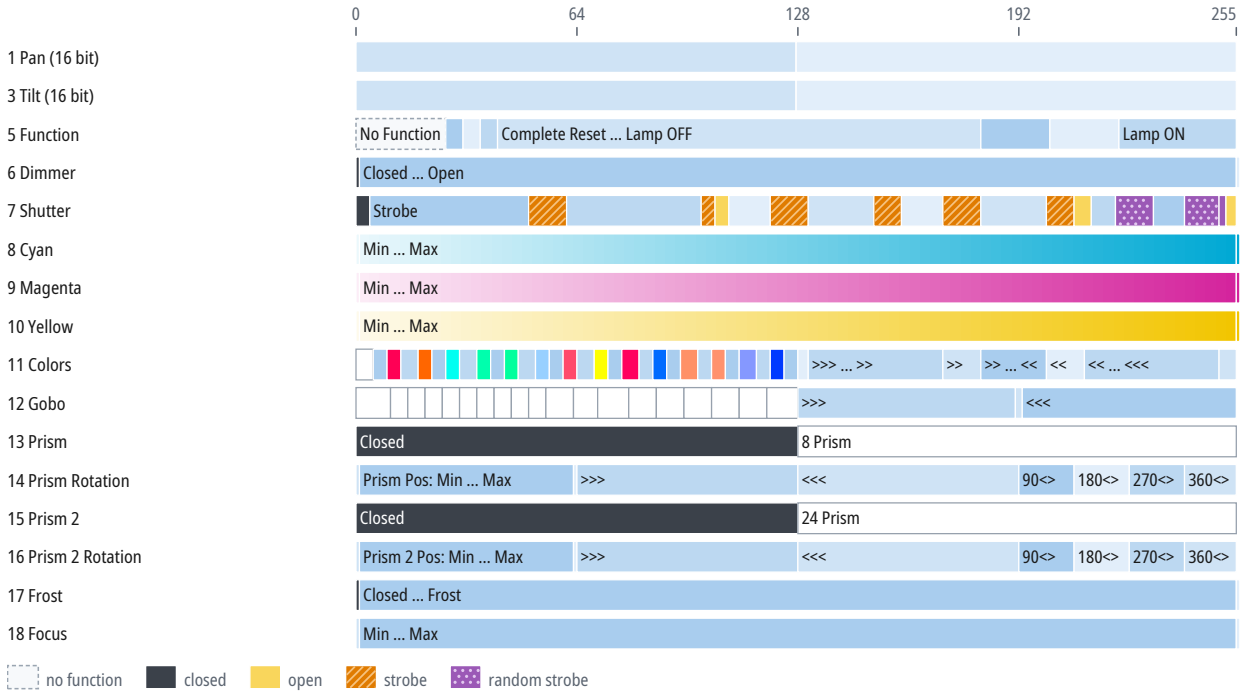
Unit	Start address	Unit	Start address	Unit	Start address	Unit	Start address
1	1	6	91	11	181	16	271
2	19	7	109	12	199	17	289
3	37	8	127	13	217	18	307
4	55	9	145	14	235	19	325
5	73	10	163	15	253	20	343

Mode 18CH

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 6 Dimmer above 0; CH 7 Shutter at 104–107, 208–212 or 252–255 “Open”. The GDTF file gives these values for a console's Highlight function: CH 6 Dimmer 255, CH 7 Shutter 255.

Channel functions at a glance



CH	Function	DMX	Description
1	Pan	0–127	Pan 1
		128	Center
		128–255	Pan 1
2	Pan Fine	0–255	Fine adjustment of CH 1
3	Tilt	0–127	Tilt 1
		128	Center
		128–255	Tilt 1
4	Tilt Fine	0–255	Fine adjustment of CH 3
5	Function	0–25	No Function
		26–30	Effects Reset
		31–35	Reset XY
		36–40	Complete Reset
		41–180	Complete Reset ... Lamp OFF
		181–200	Lamp OFF
		201–220	Lamp OFF ... Lamp ON
		221–255	Lamp ON
6	Dimmer	0	Closed
		1–254	Closed ... Open
		255	Open
7	Shutter	0–3	Closed
		4–49	Strobe
		50–60	Strobe>>
		61–99	Strobe>> ... Strobe>>>
		100–103	Strobe>>>
		104–107	Open
		108–119	Pulse Open
		120–130	Pulse>>
		131–149	Pulse>> ... Pulse>>>
		150–157	Pulse>>>
		158–169	Pulse Close
		170–180	PulseClose>>
		181–199	PulseClose>> ... PulseClose>>>
		200–207	PulseClose>>>
		208–212	Open
		213–219	Strobe Random
		220–230	StrobeRandom>
		231–239	StrobeRandom> ... StrobeRandom>>
		240–249	StrobeRandom>>
		250–251	StrobeRandom>>>
		252–255	Open
8	Cyan	0	Min

CH	Function	DMX	Description
8	Cyan (continued)	1–254	Min ... Max
		255	Max
9	Magenta	0	Min
		1–254	Min ... Max
		255	Max
10	Yellow	0	Min
		1–254	Min ... Max
		255	Max
11	Colors	0–4	White
		5–8	White ... Red
		9–12	Red
		13–17	Red ... Orange
		18–21	Orange
		22–25	Orange ... Aquamarine
		26–29	Aquamarine
		30–34	Aquamarine ... Green
		35–38	Green
		39–42	Green ... Light Green
		43–46	Light Green
		47–51	Light Green ... Lavender
		52–55	Lavender
		56–59	Lavender ... Pink
		60–63	Pink
		64–68	Pink ... Yellow
		69–72	Yellow
		73–76	Yellow ... Magenta
		77–81	Magenta
		82–85	Magenta ... Cyan
		86–89	Cyan
		90–93	Cyan ... CTO
		94–98	CTO
		99–102	CTO ... CTO 2
		103–106	CTO 2
		107–110	CTO 2 ... CTB
		111–115	CTB
		116–119	CTB ... Blue
		120–123	Blue
		124–127	Color 1
		128–130	>>> (470–455.2 °/s)
		131–169	>>> ... >>
		170–180	>> (159.1–85.1 °/s)
		181–199	>> ... <<

CH	Function	DMX	Description
11	Colors (continued)	200–210	<< (62.9–136.9 °/s)
		211–249	<< ... <<<
		250–255	<<< (433–470 °/s)
12	Gobo	0–9	White
		10–14	Gobo 1
		15–19	Gobo 2
		20–24	Gobo 3
		25–29	Gobo 4
		30–34	Gobo 5
		35–39	Gobo 6
		40–44	Gobo 7
		45–49	Gobo 8
		50–54	Gobo 9
		55–62	Gobo 1 Shake (0.5–10 Hz)
		63–69	Gobo 2 Shake (0.5–10 Hz)
		70–78	Gobo 3 Shake (0.5–10 Hz)
		79–86	Gobo 4 Shake (0.5–10 Hz)
		87–94	Gobo 5 Shake (0.5–10 Hz)
		95–102	Gobo 6 Shake (0.5–10 Hz)
		103–110	Gobo 7 Shake (0.5–10 Hz)
		111–118	Gobo 8 Shake (0.5–10 Hz)
		119–127	Gobo 9 Shake (0.5–10 Hz)
		128–190	>>>
		191–192	Gobo Spin: Stop
		193–255	<<<
13	Prism	0–127	Closed
		128–255	8 Prism
14	Prism Rotation	0	Prism Pos: Min
		1–62	Prism Pos: Min ... Max
		63	Prism Pos: Max
		64–127	>>> (360–50 °/s)
		128–191	<<< (50–360 °/s)
		192–207	90<> (up to 45 °/s (7.5 rpm))
		208–223	180<> (up to 90 °/s (15 rpm))
		224–239	270<> (up to 135 °/s (22 rpm))
		240–255	360<> (up to 180 °/s (30 rpm))
15	Prism 2	0–127	Closed
		128–255	24 Prism
16	Prism 2 Rotation	0	Prism 2 Pos: Min
		1–62	Prism 2 Pos: Min ... Max
		63	Prism 2 Pos: Max
		64–127	>>> (360–50 °/s)

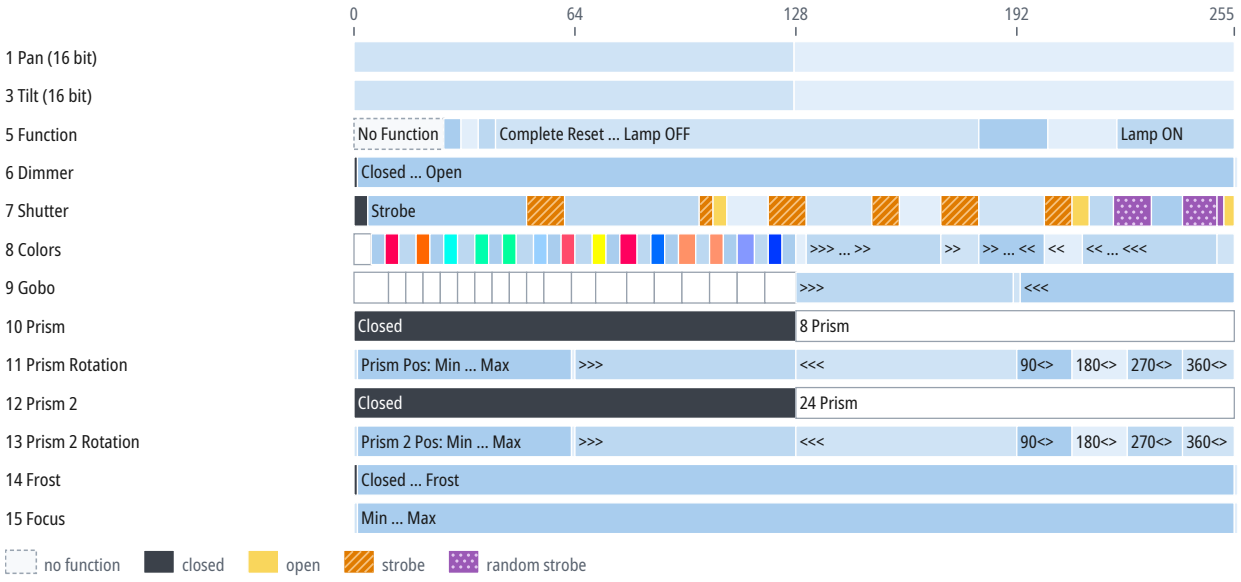
CH	Function	DMX	Description
16	Prism 2 Rotation (continued)	128–191	<<< (50–360 °/s)
		192–207	90<> (up to 45 °/s (7.5 rpm))
		208–223	180<> (up to 90 °/s (15 rpm))
		224–239	270<> (up to 135 °/s (22 rpm))
		240–255	360<> (up to 180 °/s (30 rpm))
17	Frost	0	Closed
		1–254	Closed ... Frost
		255	Frost
18	Focus	0	Min
		1–254	Min ... Max
		255	Max

Mode 15CH

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 6 Dimmer above 0; CH 7 Shutter at 104–107, 208–212 or 252–255 “Open”. The GDTF file gives these values for a console's Highlight function: CH 6 Dimmer 255, CH 7 Shutter 255.

Channel functions at a glance



CH	Function	DMX	Description
1	Pan		Same as CH 1 in the mode “18CH” (p. 10)
2	Pan Fine	0–255	Fine adjustment of CH 1
3	Tilt		Same as CH 3 in the mode “18CH” (p. 10)
4	Tilt Fine	0–255	Fine adjustment of CH 3
5	Function		Same as CH 5 in the mode “18CH” (p. 10)
6	Dimmer		Same as CH 6 in the mode “18CH” (p. 10)
7	Shutter		Same as CH 7 in the mode “18CH” (p. 10)
8	Colors		Same as CH 11 in the mode “18CH” (p. 11)

CH	Function	DMX	Description
9	Gobo		Same as CH 12 in the mode “18CH” (p. 12)
10	Prism		Same as CH 13 in the mode “18CH” (p. 12)
11	Prism Rotation		Same as CH 14 in the mode “18CH” (p. 12)
12	Prism 2		Same as CH 15 in the mode “18CH” (p. 12)
13	Prism 2 Rotation		Same as CH 16 in the mode “18CH” (p. 12)
14	Frost		Same as CH 17 in the mode “18CH” (p. 13)
15	Focus		Same as CH 18 in the mode “18CH” (p. 13)

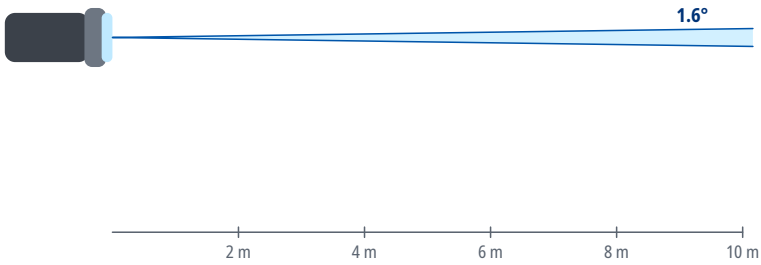
10 Technical specifications

Parameter	Value
Light	
Light source	discharge lamp
Lamp power	550 W
Luminous flux	18,700 lm
Color temperature	7,400 K
Color rendering index (CRI)	80
Optics	
Beam angle	1.6°
Movement	
Pan	540°
Tilt	250°
Control	
RDM	yes (manufacturer ID 0x3888, device model ID 0x0009)
Dimensions and construction	
Weight	41.5 kg
Operating environment	
Operating temperature	-20 to 40 °C

Speeds and ranges

Parameter	Value
Strobe frequency	1–20 Hz
Color wheel rotation	up to 470 °/s (78 rpm)
Gobo wheel rotation	up to 360 °/s (60 rpm)
Prism 1 rotation	up to 360 °/s (60 rpm)
Prism 2 rotation	up to 360 °/s (60 rpm)

Spot diameter



Distance	Ø 1.6°
2 m	0.06 m
4 m	0.11 m
6 m	0.17 m
8 m	0.22 m
10 m	0.28 m
15 m	0.42 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.