DMX REFERENCE

REGIS 300

Lotus Light



Manufacturer	Lotus Light
GDTF file	Lotus_Light_REGIS_300_168551.gdtf
GDTF revision	REGIS 300 V4 · 2026-11-09
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1 About this manual

This document describes the REGIS 300 by Lotus Light. It was compiled from the GDTF file Lotus_Light_REGIS_300_168551.gdtf from the GDTF-Share library.

File revision: “REGIS 300 V4”.

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 Lotus Light; 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	233 W
Weight	30 kg
Ingress protection	IP66

DMX modes

Mode	Channels	Units in one universe	First start addresses
21CH	21	24	1, 22, 43, 64, …

No light? Check these channels

- 21CH: CH 19 Strobe at 104–107 “Open”; CH 20 Dimmer above 0


Read the manual before use


Risk of electric shock


Do not stare into the light

3 Safety instructions



Read the manual before use



Risk of electric shock



Do not stare into the light

⚠ 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.

⚠ CAUTION

- The device is rated IP66 and may be used outdoors within the limits of this rating.
- This protection is effective only when all connectors are mated or closed with their protective caps and all seals are intact. Use cables and connectors with the same or a higher protection rating.
- Do not open the housing; opening it breaks the seals and the protection rating can no longer be guaranteed.
- Install the device so that water cannot collect around connectors and cable glands, and inspect seals and cables regularly.

⚠ **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

- Optical
- Light source:300W Laser
- Color temperature of the whole light: 8500K
- CTO color temperature: 3000-8500K
- Expected average lifetime: 12000 hours

“Optical system Zoom angle: 0.8 °”

- Control system
- Control Panel: LCD display + 4 touch buttons
- Control Protocol: DMX512, RDM, Auto, Art-Net, sACN
- DMX channel mode: 1 type
- Control Channel: 21CH
- X-axis/Y-axis
- X-axis rotation angle: 540 °
- Y-axis operating angle: 270 °
- X-axis/Y-axis: 16-bit precision scanning
- Color
- CMY Infinite Color Mixing
- CT0
- Color Palette 1: 8 Colors
- Color Palette 2: 11 Colors

“Pattern 1 static pattern disk: 19+1 patterns, with variable speed shake and bi-directional rotation”

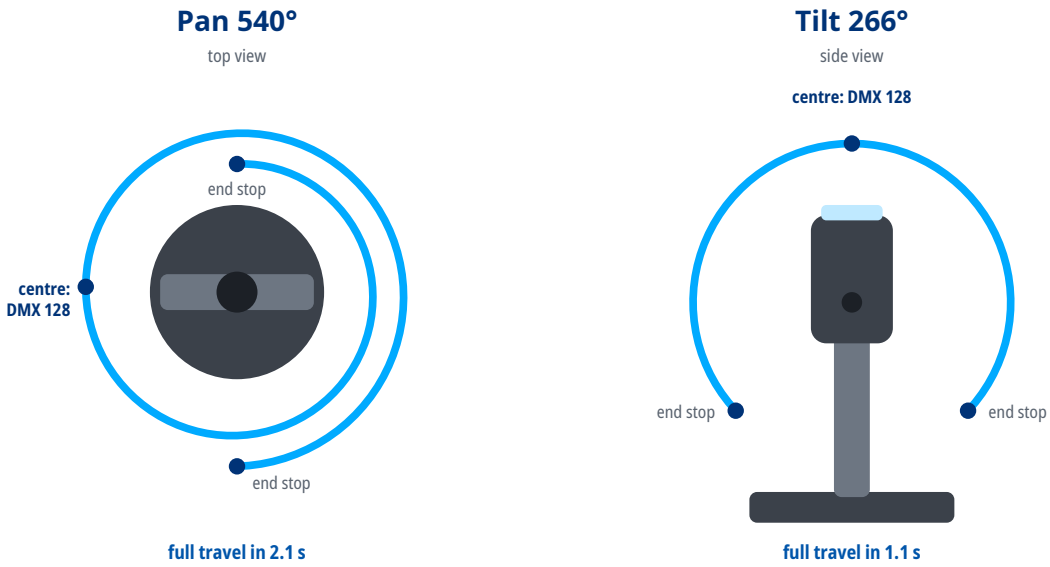
“Prism 4 prisms: 1pcs 6-row prism, 1pcs 8-prism, 1pcs 24-prism, 1pcs 48-prism, 6-row prisms can be rotated and stacked bidirectionally with 24-row or 48-row prisms. The 8-prism can be rotated and stacked bidirectionally with the 24-prism or 48-prism.”

“Atomization 1 atomizer: 1 atomizer Six-Color Color Wheel: 1 six-color color sheet 1-20Hz rapid strobe per second, with pulse strobe, synchronous and asynchronous strobe effects, and dimming.”

“Dimming 0-100% smooth dimming, 16-bit precision fine-tuning function”

- Electrical connection
- Input voltage range: 100-240V 50/60Hz
- Power: 430W
- Power Socket: Waterproof Power Connector Input/Output
- Signal Input/Output: RJ45 Waterproof Socket + 5-pin Waterproof XLR Socket
- Size\Appearance\Weight
- Product dimensions: 396x256x708mm (length x width x height)
- Shell: Magnesium alloy+Plastic
- Weight: 30KG
- Work environment
- Working environment: -20 ℃ ~45 ℃
- Protection level: IP66

Range of movement



Full-travel times as stated in the GDTF file.

5 Installation

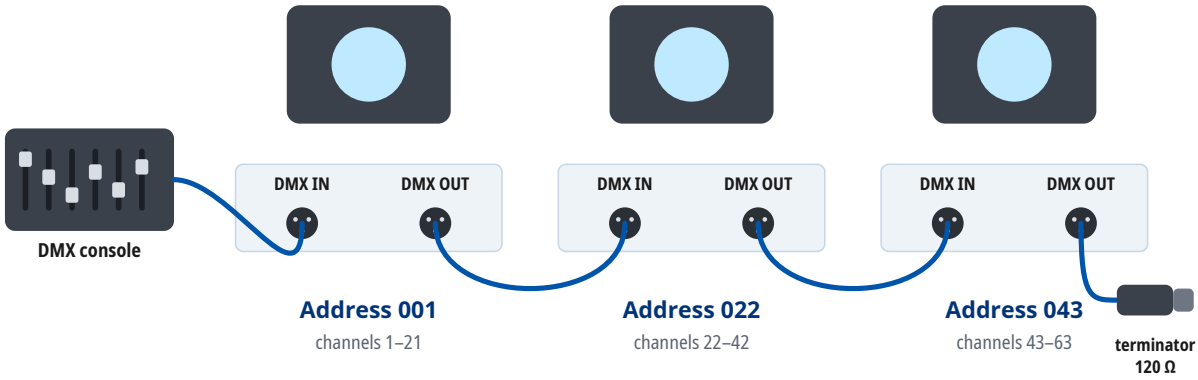
⚠ **WARNING**

- 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: 30 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 21CH: every unit occupies 21 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 “21CH”: 21.
- 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 “21CH”, you can use, for example, the start addresses 1, 22, 43, 64.
- 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

	21CH 21 channels
Pan / Tilt	1, 3
Dimmer	20
Shutter / strobe	19
Color mixing	6–8
Color temperature	9
Color wheel	10
Gobo wheel	11
Gobo rotation	11
Prism	12–14
Frost	16
Zoom	18
Effects / macros	17

Color wheel

1. Color 1: Open — DMX 0–5
2. Fuchsia — DMX 6–11
3. Golden Yellow — DMX 12–17
4. Dark Brown — DMX 18–23
5. Cream — DMX 24–29
6. Navy Blue — DMX 30–35
7. Dark Red — DMX 36–41
8. Light Pink — DMX 42–47
9. Yellow — DMX 48–53
10. Light Blue — DMX 54–59
11. Bright Green — DMX 60–65
12. Light Brown — DMX 66–71
13. Light Turquoise — DMX 72–77
14. Dark Teal — DMX 78–83
15. Sky Blue — DMX 84–89
16. Bright Blue — DMX 90–95
17. Purple — DMX 96–101
18. Dark Purple — DMX 102–107
19. Light Cream 1 — DMX 108–113
20. Pale Pink — DMX 114–119
21. White — DMX 120–128

Gobo wheel 1

1
Gobo 1: Open
DMX 0–2

2 
Gobo 1
DMX 3–5

3 
Gobo 1: Gobo 2
DMX 6–8

4 
Gobo 1: Gobo 3
DMX 9–11

5 
Gobo 1: Gobo 4
DMX 12–14

6 
Gobo 1: Gobo 5
DMX 15–17

7 
Gobo 1: Gobo 6
DMX 18–20

8 
Gobo 1: Gobo 7
DMX 21–23

9 
Gobo 1: Gobo 8
DMX 24–26

10 
Gobo 1: Gobo 9
DMX 27–29

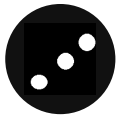
11 
Gobo 10
DMX 30–32

12 
Gobo 11
DMX 33–35

13 
Gobo 12
DMX 36–38

14 
Gobo 13
DMX 39–41

15 
Gobo 14
DMX 42–44

16 
Gobo 15
DMX 45–47

17 
Gobo 16
DMX 48–50

18 
Gobo 17
DMX 51–53

19 
Gobo 18
DMX 54–56

20 
Gobo 19
DMX 57–60

Prism 1

1
Prism 1 Position
DMX 0–19

2 
8 facets
Prism 1
DMX 20–127

3 
8 facets
Prism 2
DMX 128–255

Prism 2

1
Open
DMX 0–19

2 
24 facets
Prism 3
DMX 20–127

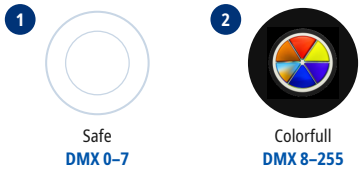
3 
24 facets
Prism 4
DMX 128–255

Gobo wheel 2

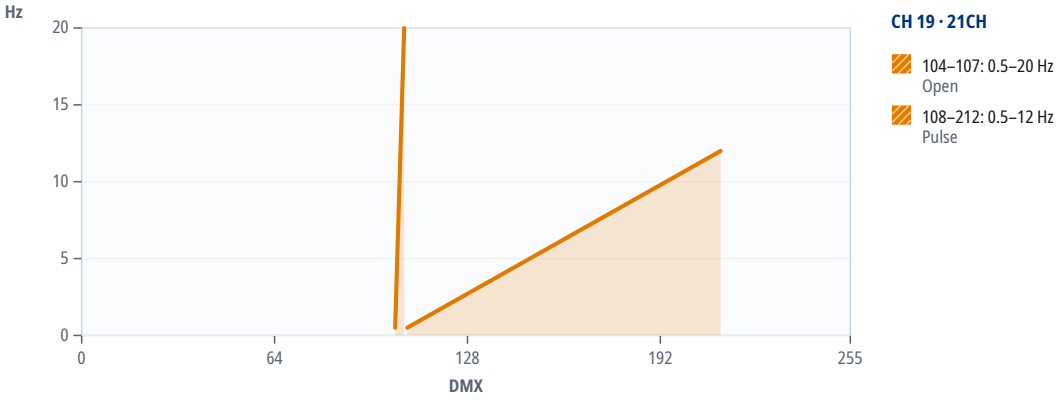
1
Open
DMX 0–7

2 
Full Frost
DMX 8–255

Gobo wheel 3

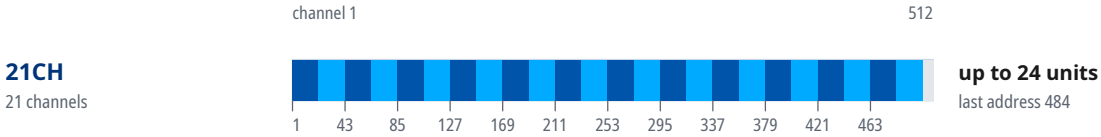


Strobe rate



9 DMX channels

Units in one DMX universe



Start addresses of 20 units in the mode “21CH”

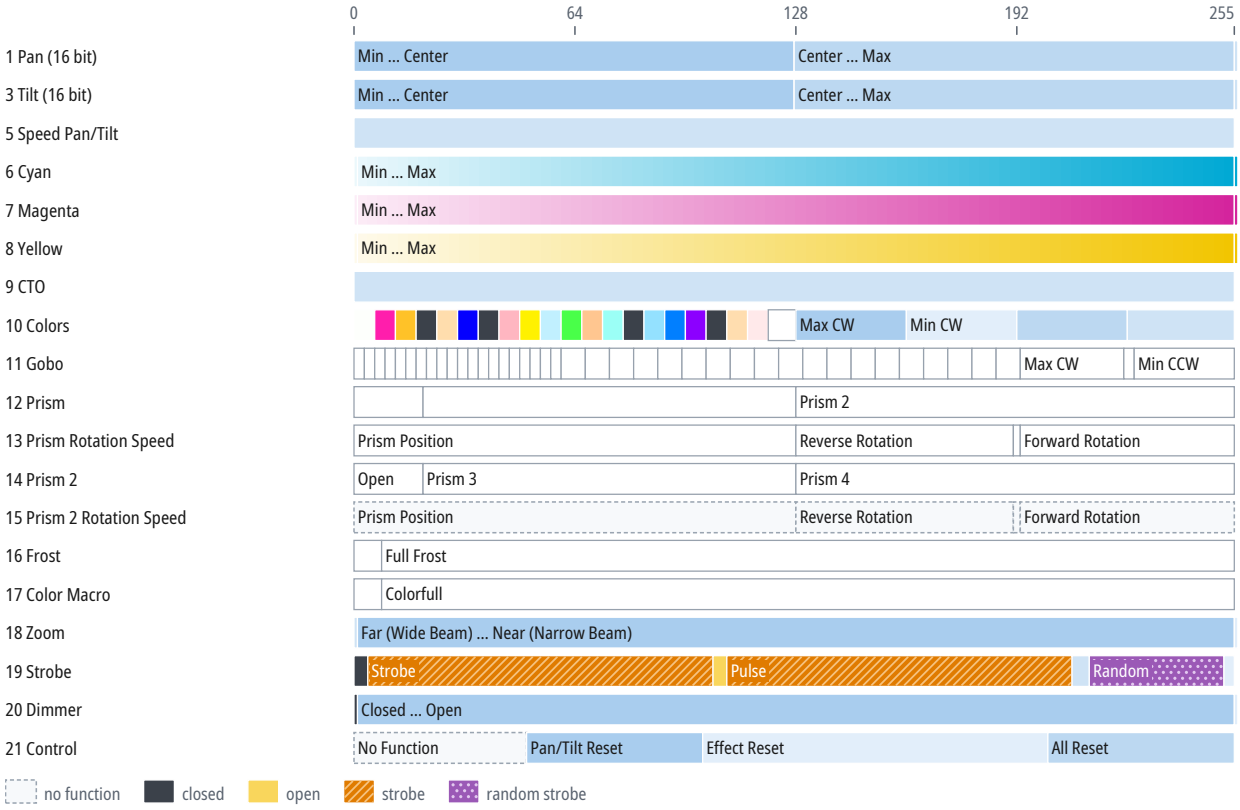
Unit	Start address	Unit	Start address	Unit	Start address	Unit	Start address
1	1	6	106	11	211	16	316
2	22	7	127	12	232	17	337
3	43	8	148	13	253	18	358
4	64	9	169	14	274	19	379
5	85	10	190	15	295	20	400

Mode 21CH

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 19 Strobe at 104–107 “Open”; CH 20 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 10 Colors 0, CH 19 Strobe 104, CH 20 Dimmer 255.

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	Speed Pan/Tilt	0–255	
6	Cyan	0	Min
		1–254	Min ... Max
		255	Max
7	Magenta	0	Min
		1–254	Min ... Max
		255	Max
8	Yellow	0	Min
		1–254	Min ... Max
		255	Max
9	CTO	0–255	
10	Colors	0–5	Color 1: Open
		6–11	Fuchsia
		12–17	Golden Yellow
		18–23	Dark Brown
		24–29	Cream
		30–35	Navy Blue
		36–41	Dark Red
		42–47	Light Pink
		48–53	Yellow
		54–59	Light Blue
		60–65	Bright Green
		66–71	Light Brown
		72–77	Light Turquoise
		78–83	Dark Teal
		84–89	Sky Blue
		90–95	Bright Blue
		96–101	Purple
		102–107	Dark Purple
		108–113	Light Cream 1
		114–119	Pale Pink
		120–127	White
		128–159	Max CW

CH	Function	DMX	Description
10	Colors (continued)	160–191	Min CW
		192–223	Color 1 Wheel Spin: Forward Max
		224–255	Color 1 Wheel Spin: Forward Min
11	Gobo	0–2	Gobo 1: Open
		3–5	Gobo 1
		6–8	Gobo 1: Gobo 2
		9–11	Gobo 1: Gobo 3
		12–14	Gobo 1: Gobo 4
		15–17	Gobo 1: Gobo 5
		18–20	Gobo 1: Gobo 6
		21–23	Gobo 1: Gobo 7
		24–26	Gobo 1: Gobo 8
		27–29	Gobo 1: Gobo 9
		30–32	Gobo 10
		33–35	Gobo 11
		36–38	Gobo 12
		39–41	Gobo 13
		42–44	Gobo 14
		45–47	Gobo 15
		48–50	Gobo 16
		51–53	Gobo 17
		54–56	Gobo 18
		57–59	Gobo 19
		60–66	Gobo 1 Select Shake: Gobo 1 (1–10 Hz)
		67–73	Gobo 1 Select Shake: Gobo 2 (1–10 Hz)
		74–80	Gobo 1 Select Shake: Gobo 3 (1–10 Hz)
		81–87	Gobo 1 Select Shake: Gobo 4 (1–10 Hz)
		88–94	Gobo 1 Select Shake: Gobo 5 (1–10 Hz)
		95–101	Gobo 1 Select Shake: Gobo 6 (1–10 Hz)
		102–108	Gobo 1 Select Shake: Gobo 7 (1–10 Hz)
		109–115	Gobo 1 Select Shake: Gobo 8 (1–10 Hz)
		116–122	Gobo 1 Select Shake: Gobo 9 (1–10 Hz)
		123–129	Gobo 1 Select Shake: Gobo 10 (1–10 Hz)
		130–136	Gobo 1 Select Shake: Gobo 11 (1–10 Hz)
		137–143	Gobo 1 Select Shake: Gobo 12 (1–10 Hz)
		144–150	Gobo 1 Select Shake: Gobo 13 (1–10 Hz)
		151–157	Gobo 1 Select Shake: Gobo 14 (1–10 Hz)
		158–164	Gobo 1 Select Shake: Gobo 15 (13.2–14 Hz)
		165–171	Gobo 1 Select Shake: Gobo 16 (14.1–14.9 Hz)
		172–178	Gobo 1 Select Shake: Gobo 17 (15–15.8 Hz)
		179–185	Gobo 1 Select Shake: Gobo 18 (15.9–16.6 Hz)
		186–192	Gobo 1 Select Shake: Gobo 19 (16.8–17.5 Hz)

CH	Function	DMX	Description
11	Gobo (continued)	193–222	Max CW
		223–225	Gobo 1 Select Spin: Stop
		226–255	Min CCW
12	Prism	0–19	Prism 1 Position
		20–127	Prism 1
		128–255	Prism 2
13	Prism Rotation Speed	0–127	Prism Position
		128–190	Reverse Rotation
		191–192	Rotation Stop
		193–255	Forward Rotation
14	Prism 2	0–19	Open
		20–127	Prism 3
		128–255	Prism 4
15	Prism 2 Rotation Speed		Prism Swing 3
		0–127	Prism Position
		128–190	Reverse Rotation
		191–192	Rotation Stop
		193–255	Forward Rotation
16	Frost	0–7	Open
		8–255	Full Frost
17	Color Macro	0–7	Safe
		8–255	Colorfull
18	Zoom	0	Far (Wide Beam)
		1–254	Far (Wide Beam) ... Near (Narrow Beam)
		255	Near (Narrow Beam)
19	Strobe	0–3	Closed
		4–103	Strobe
		104–107	Open (0.5–20 Hz)
		108–212	Pulse (0.5–12 Hz)
		213–255	Random (12–0.5 Hz)
20	Dimmer	0	Closed
		1–254	Closed ... Open
		255	Open
21	Control	0–49	No Function
		50–100	Pan/Tilt Reset
		101–200	Effect Reset
		201–255	All Reset

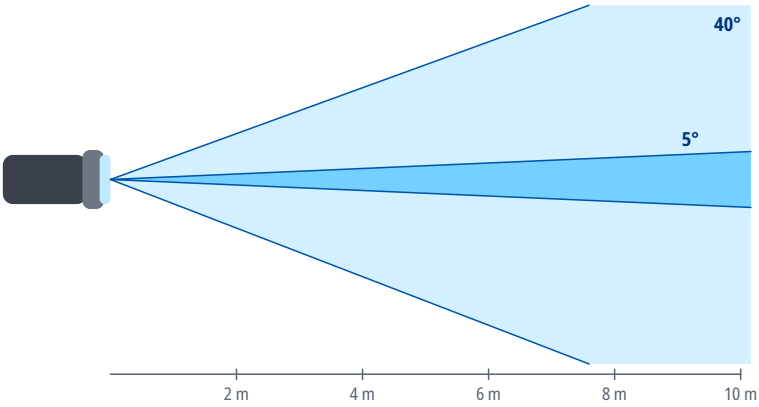
10 Technical specifications

Parameter	Value
Light	
Light source	LED
LED power	120 W
Luminous flux	9,200 lm
Color temperature	9,256 K
Color rendering index (CRI)	70
Optics	
Zoom	5–40°
Movement	
Pan	540°
Tilt	266°
Control	
DMX connection	5-pin XLR IN/OUT
Electrical	
Power supply	100–240 V, 50/60 Hz
Power consumption	233 W
Power connectors	powerCON TRUE1 IN/OUT
Dimensions and construction	
Weight	30 kg
Operating environment	
Ingress protection	IP66
Meaning of the IP code (IEC 60529)	Dust-tight; protected against powerful water jets
Operating temperature	-20 to 45 °C

Speeds and ranges

Parameter	Value
Strobe frequency	0.5–20 Hz
Color wheel rotation	up to 5 °/s (0.8 rpm)
Gobo wheel 1 rotation	up to 120 °/s (20 rpm)

Spot diameter



Distance	Ø 5°	Ø 40°
2 m	0.17 m	1.5 m
4 m	0.35 m	2.9 m
6 m	0.52 m	4.4 m
8 m	0.7 m	5.8 m
10 m	0.87 m	7.3 m
15 m	1.3 m	10.9 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.