DMX REFERENCE

A8_Profile

AM_8032_LED Profile

DAGE



Manufacturer	DAGE
GDTF file	DAGE_A8_Profile_168594.gdtf
GDTF revision	Created_Ver 1-1 _20261110 · 2026-11-09
Generated	2026-11-23

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1 About this manual

This document describes the AM_8032_LED Profile by DAGE. It was compiled from the GDTF file DAGE_A8_Profile_168594.gdtf from the GDTF-Share library.

File revision: “Created_Ver 1-1 _20261110”.

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 DAGE; 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	38 kg

DMX modes

Mode	Channels	Units in one universe	First start addresses
Mode 1	32	16	1, 33, 65, 97, ...

No light? Check these channels

- Mode 1: CH 4 Dimmer above 0; CH 5 Shutter at 0 “Open”


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

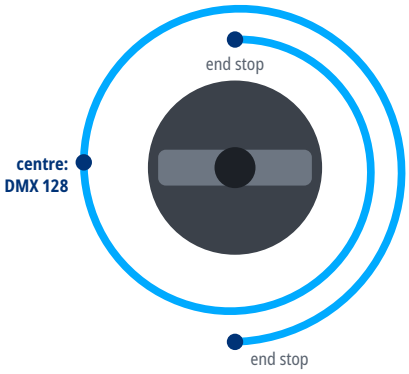
Description in the GDTF file

- High CRI:Ra>95; R9>92
- Manufacturer: Guangzhou Dage Lighting
- LED Power 700W
- GDTF Editor:NiPeng (WeChat:NiPeng_2035)

Range of movement

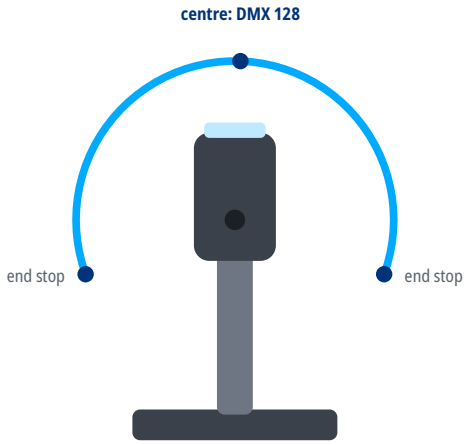
Pan 540°

top view



Tilt 220°

side view



5 Installation

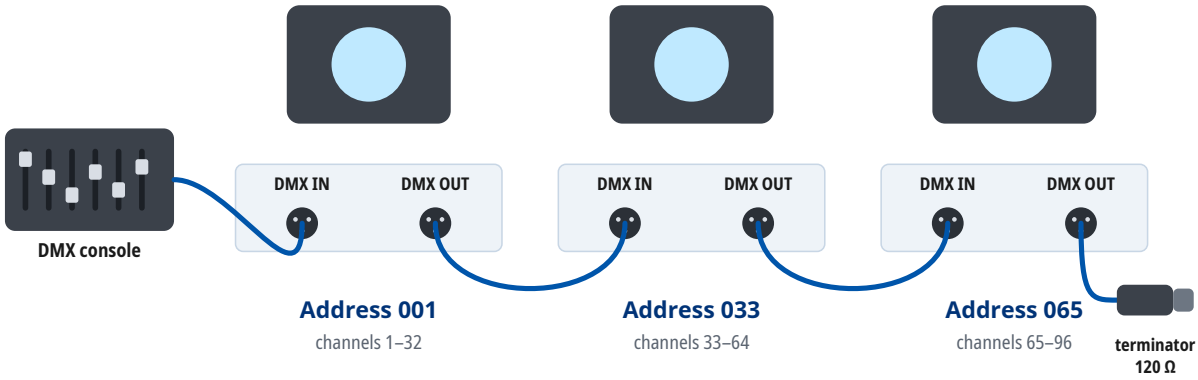
⚠ **WARNING**

- 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: 38 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 1: every unit occupies 32 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

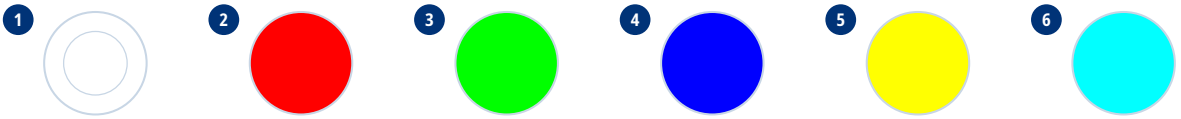
- The device occupies as many consecutive channels in the DMX universe as the selected DMX mode uses, starting at the set start address.
- Number of channels occupied in the DMX mode “Mode 1”: 32.
- Choose start addresses so that the channels of individual devices do not overlap and the last occupied 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 “Mode 1”, you can use, for example, the start addresses 1, 33, 65, 97.
- 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

	Mode 1 32 channels
Pan / Tilt	1, 2
Dimmer	4
Shutter / strobe	5
Color mixing	6–8
Color temperature	9
Color wheel	10
Gobo wheel	11, 12
Gobo rotation	13
Prism	15, 16
Frost	14
Zoom	28
Focus	29
Iris	27

Color wheel



1. White — DMX 0–9
2. Red — DMX 20–29
3. Green — DMX 40–49
4. Blue — DMX 60–69
5. Yellow — DMX 80–89
6. Cyan — DMX 100–109
7. Pink — DMX 120–129
8. Amber — DMX 140–149

Gobo wheel 1



1. Gobo 1 Select: Open — DMX 0–9
2. Gobo1_1 — DMX 10–19
3. Gobo1_2 — DMX 20–29
4. Gobo1_3 — DMX 30–39
5. Gobo1_4 — DMX 40–49
6. Gobo1_5 — DMX 50–59
7. Gobo1_6 — DMX 60–69
8. Gobo1_7 — DMX 70–79
9. Gobo1_8 — DMX 80–89
10. Gobo1_9 — DMX 90–100

Gobo wheel 2

1 Gobo 2 Select: Open
DMX 0–9



2 Gobo2_1
DMX 10–19

3 Gobo2_2
DMX 20–29



4 Gobo2_3
DMX 30–39



5 Gobo2_4
DMX 40–49



6 Gobo2_5
DMX 50–59



7 Gobo2_6
DMX 60–69



8 Gobo2_7
DMX 70–80



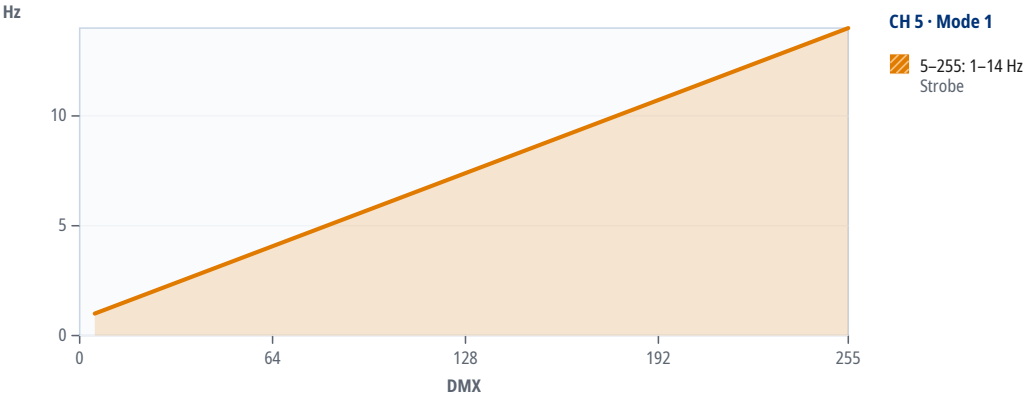
Prism

1 Open
DMX 0

2 4 facets
Prism_Insert
DMX 255



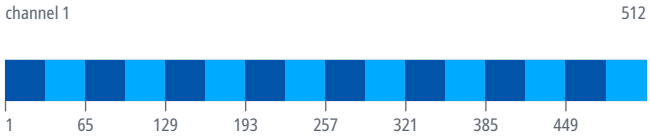
Strobe rate



9 DMX channels

Units in one DMX universe

Mode 1
32 channels



up to 16 units
last address 481

Start addresses of 20 units in the mode “Mode 1”

Unit	Start address	Unit	Start address	Unit	Start address	Unit	Start address
1	1	6	161	11	321	16	481
2	33	7	193	12	353	17	U2 · 1
3	65	8	225	13	385	18	U2 · 33
4	97	9	257	14	417	19	U2 · 65
5	129	10	289	15	449	20	U2 · 97

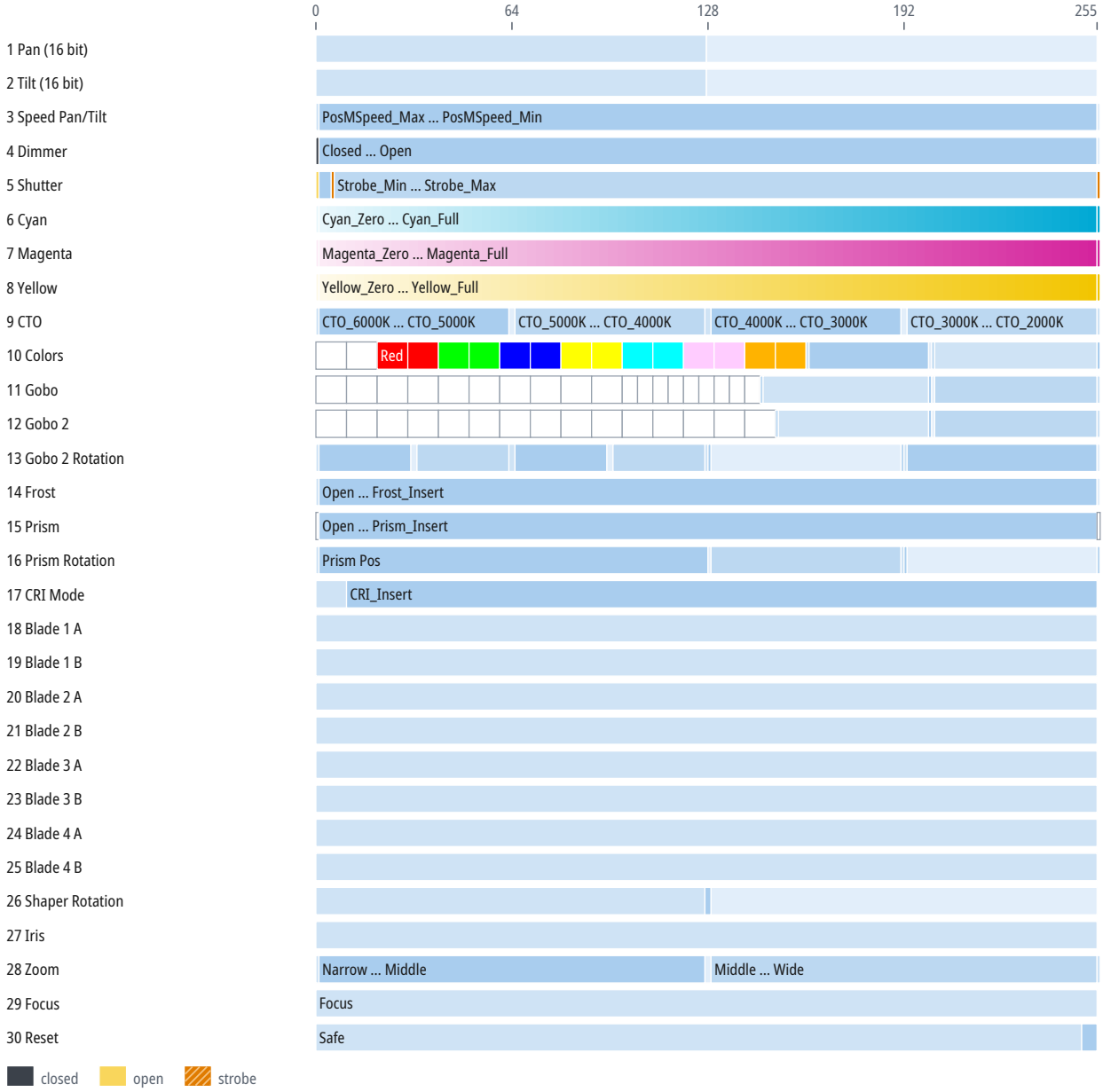
Where a DMX universe is full, the next units continue in the next universe: “U2 · 1” is address 1 in the second universe, counted from the universe of the first unit.

Mode 1

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 4 Dimmer above 0; CH 5 Shutter at 0 “Open”. The GDTF file gives these values for a console's Highlight function: CH 4 Dimmer 255, CH 5 Shutter 0, CH 6 Cyan 0, CH 7 Magenta 0, CH 8 Yellow 0.

Channel functions at a glance



CH	Function	DMX	Description
1	Pan	0–127	Pan
		128	Home
		128–255	Pan
2	Tilt	0–127	Tilt
		128	Home

CH	Function	DMX	Description
2	Tilt (continued)	128–255	Tilt
3	Speed Pan/Tilt	0	PosMSpeed_Max
		1–254	PosMSpeed_Max ... PosMSpeed_Min
		255	PosMSpeed_Min
4	Dimmer	0	Closed
		1–254	Closed ... Open
		255	Open
5	Shutter	0	Shutter: Open
		1–4	Shutter
		5	Strobe_Min
		6–254	Strobe_Min ... Strobe_Max
		255	Strobe_Max
6	Cyan	0	Cyan_Zero
		1–254	Cyan_Zero ... Cyan_Full
		255	Cyan_Full
7	Magenta	0	Magenta_Zero
		1–254	Magenta_Zero ... Magenta_Full
		255	Magenta_Full
8	Yellow	0	Yellow_Zero
		1–254	Yellow_Zero ... Yellow_Full
		255	Yellow_Full
9	CTO	0	CTO_6000K
		1–62	CTO_6000K ... CTO_5000K
		63–64	CTO_5000K
		65–126	CTO_5000K ... CTO_4000K
		127–128	CTO_4000K
		129–190	CTO_4000K ... CTO_3000K
		191–192	CTO_3000K
		193–254	CTO_3000K ... CTO_2000K
		255	CTO_2000K
10	Colors	0–9	White
		10–19	White/Red
		20–29	Red
		30–39	Red/Green
		40–49	Green
		50–59	Green/Blue
		60–69	Blue
		70–79	Blue/Yellow
		80–89	Yellow
		90–99	Yellow/Cyan
		100–109	Cyan
		110–119	Cyan/Pink

CH	Function	DMX	Description
10	Colors (continued)	120–129	Pink
		130–139	Pink/Amber
		140–149	Amber
		150–159	Amber/White
		160	ColorSpinCW_Min
		161–199	ColorSpinCW_Min ... ColorSpinCW_Max
		200	ColorSpinCW_Max
		201	ColorSpinCCW_Min
		202–254	ColorSpinCCW_Min ... ColorSpinCCW_Max
		255	ColorSpinCCW_Max
11	Gobo	0–9	Gobo 1 Select: Open
		10–19	Gobo1_1
		20–29	Gobo1_2
		30–39	Gobo1_3
		40–49	Gobo1_4
		50–59	Gobo1_5
		60–69	Gobo1_6
		70–79	Gobo1_7
		80–89	Gobo1_8
		90–99	Gobo1_9
		100–104	Gobo1_1Shaking (1–7 Hz)
		105–109	Gobo1_2Shaking (1–7 Hz)
		110–114	Gobo1_3Shaking (1–7 Hz)
		115–119	Gobo1_4Shaking (1–7 Hz)
		120–124	Gobo1_5Shaking (1–7 Hz)
		125–129	Gobo1_6Shaking (1–7 Hz)
		130–134	Gobo1_7Shaking (1–7 Hz)
		135–139	Gobo1_8Shaking (1–7 Hz)
		140–144	Gobo1_9Shaking (1–7 Hz)
		145	Gobo1SpinCW_Min
		146–199	Gobo1SpinCW_Min ... Gobo1SpinCW_Max
		200	Gobo1SpinCW_Max
		201	Gobo1SpinCCW_Min
		202–254	Gobo1SpinCCW_Min ... Gobo1SpinCCW_Max
		255	Gobo1SpinCCW_Max
12	Gobo 2	0–9	Gobo 2 Select: Open
		10–19	Gobo2_1
		20–29	Gobo2_2
		30–39	Gobo2_3
		40–49	Gobo2_4
		50–59	Gobo2_5
		60–69	Gobo2_6

CH	Function	DMX	Description
12	Gobo 2 (continued)	70–79	Gobo2_7
		80–89	Gobo2_1Shaking (1–7 Hz)
		90–99	Gobo2_2Shaking (1–7 Hz)
		100–109	Gobo2_3Shaking (1–7 Hz)
		110–119	Gobo2_4Shaking (1–7 Hz)
		120–129	Gobo2_5Shaking (1–7 Hz)
		130–139	Gobo2_6Shaking (1–7 Hz)
		140–149	Gobo2_7Shaking (1–7 Hz)
		150	Gobo2SpinCW_Min
		151–199	Gobo2SpinCW_Min ... Gobo2SpinCW_Max
		200	Gobo2SpinCW_Max
		201	Gobo2SpinCCW_Min
		202–254	Gobo2SpinCCW_Min ... Gobo2SpinCCW_Max
		255	Gobo2SpinCCW_Max
13	Gobo 2 Rotation	0	Gobo2Pos_0 Deg
		1–30	Gobo2Pos_0 Deg ... Gobo2Pos_90 Deg
		31–32	Gobo2Pos_90 Deg
		33–62	Gobo2Pos_90 Deg ... Gobo2Pos_180 Deg
		63–64	Gobo2Pos_180 Deg
		65–94	Gobo2Pos_180 Deg ... Gobo2Pos_270 Deg
		95–96	Gobo2Pos_270 Deg
		97–126	Gobo2Pos_270 Deg ... Gobo2Pos_360 Deg
		127	Gobo2Pos_360 Deg
		128	Gobo2RotationCW_MIn
		129–190	Gobo2RotationCW_MIn ... Gobo2RotationCW_Max
		191	Gobo2RotationCW_Max
		192	Gobo2RotationCCW_Min
		193–254	Gobo2RotationCCW_Min ... Gobo2RotationCCW_Max
		255	Gobo2RotationCCW_Max
14	Frost	0	Open
		1–254	Open ... Frost_Insert
		255	Frost_Insert
15	Prism	0	Open
		1–254	Open ... Prism_Insert
		255	Prism_Insert
16	Prism Rotation	0	PrismPos_0 Deg
		1–127	Prism Pos
		128	Gobo2RotationCW_Min
		129–190	Gobo2RotationCW_Min ... Gobo2RotationCW_Max
		191	Gobo2RotationCW_Max
		192	Gobo2RotationCCW_Min
		193–254	Gobo2RotationCCW_Min ... Gobo2RotationCCW_Max

CH	Function	DMX	Description
16	Prism Rotation (continued)	255	Gobo2RotationCCW_Max
17	CRI Mode	0–9	Open
		10–255	CRI_Insert
18	Blade 1 A	0–255	
19	Blade 1 B	0–255	
20	Blade 2 A	0–255	
21	Blade 2 B	0–255	
22	Blade 3 A	0–255	
23	Blade 3 B	0–255	
24	Blade 4 A	0–255	
25	Blade 4 B	0–255	
26	Shaper Rotation	0–126	Shaper Rot
		127–128	Shaper_0 Deg
		129–255	Shaper Rot
27	Iris	0–255	
28	Zoom	0	Narrow
		1–126	Narrow ... Middle
		127–128	Middle
		129–254	Middle ... Wide
		255	Wide
29	Focus	0–255	Focus
30	Reset	0–249	Safe
		250–255	GlobalReset
31	Pan Fine	0–255	Fine adjustment of CH 1
32	Tilt Fine	0–255	Fine adjustment of CH 2

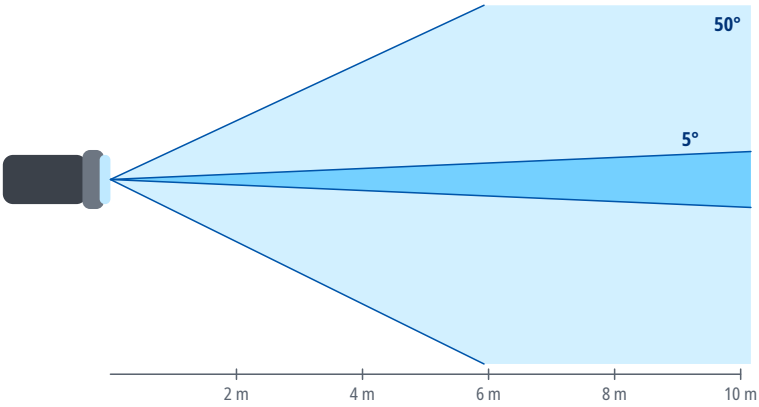
10 Technical specifications

Parameter	Value
Light	
Light source	LED
LED power	800 W
Luminous flux	28,000 lm
Color temperature	6,000 K
Color rendering index (CRI)	95
Optics	
Zoom	5–50°
Movement	
Pan	540°
Tilt	220°
Control	
DMX connection	5-pin XLR IN/OUT, 3-pin XLR IN/OUT
RJ45 connectors	RJ45 IN
Electrical	
Power supply	100–240 V, 50/60 Hz
Power consumption	850 W
Power connectors	powerCON TRUE1 IN/OUT
Dimensions and construction	
Weight	38 kg
Operating environment	
Operating temperature	-25 to 40 °C

Speeds and ranges

Parameter	Value
Color temperature range	2000–6000 K
Strobe frequency	1–14 Hz
Color wheel rotation	up to 300 °/s (50 rpm)
Gobo wheel 1 rotation	up to 300 °/s (50 rpm)
Gobo wheel 2 rotation	up to 300 °/s (50 rpm)
Gobo 2 rotation	up to 540 °/s (90 rpm)
Prism rotation	up to 540 °/s (90 rpm)

Spot diameter



Distance	Ø 5°	Ø 50°
2 m	0.17 m	1.9 m
4 m	0.35 m	3.7 m
6 m	0.52 m	5.6 m
8 m	0.7 m	7.5 m
10 m	0.87 m	9.3 m
15 m	1.3 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.