GDTF Fixture Reference · by SOH

DMX REFERENCE

N7

SS9481SCM

Silver Star



Manufacturer	Silver Star
GDTF file	Silver_Star_N7_69885.gdtf
GDTF revision	SS9481SCM · 2024-08-05
Generated	2026-11-24

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1 About this manual

This document describes the SS9481SCM by Silver Star. It was compiled from the GDTF file Silver_Star_N7_69885.gdtf from the GDTF-Share library.

File revision: “SS9481SCM”.

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 Silver Star; 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	36 kg

DMX modes

Mode	Channels	Units in one universe	First start addresses
BASIC_35CH	35	14	1, 36, 71, 106, ...
STANDARD_41CH	41	12	1, 42, 83, 124, ...
EXTEND_44CH	44	11	1, 45, 89, 133, ...

No light? Check these channels

- BASIC_35CH: CH 33 Dimmer above 0
- STANDARD_41CH: CH 38 Dimmer above 0
- EXTEND_44CH: CH 41 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.

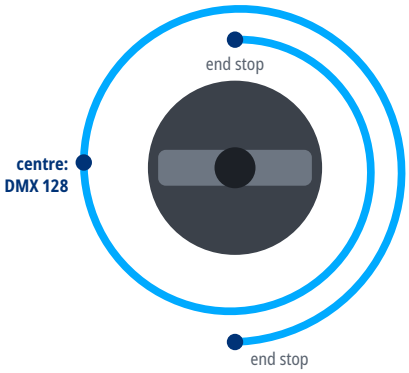
> ⚠ **WARNING**
>
> - The moving parts of the device (for example the head or arms) can move quickly and unexpectedly at any time – after power-on, during a reset, or on a command from the controller.
> - Keep yourself and any objects out of the range of movement. While the device is switched on, do 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

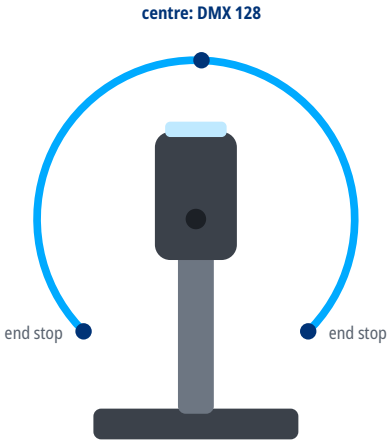
Pan 540°

top view



Tilt 270°

side view



5 Installation

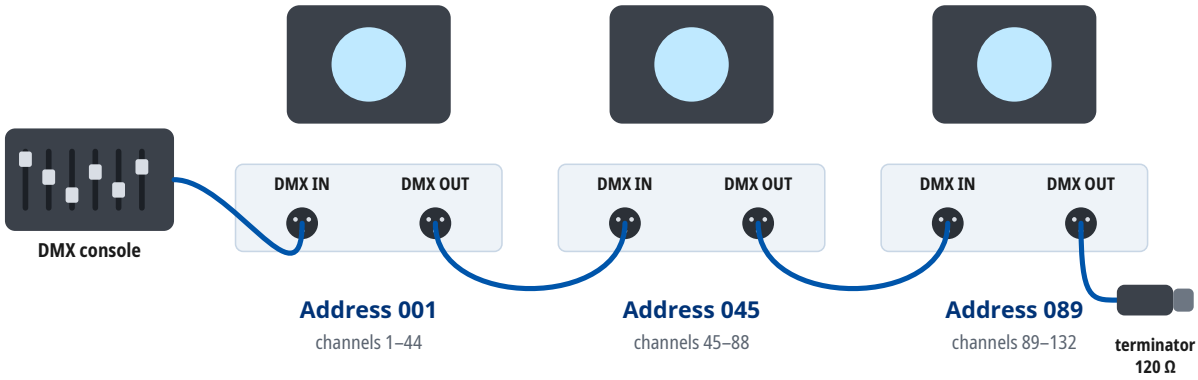
⚠ **WARNING**

- 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: 36 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 EXTEND_44CH: every unit occupies 44 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

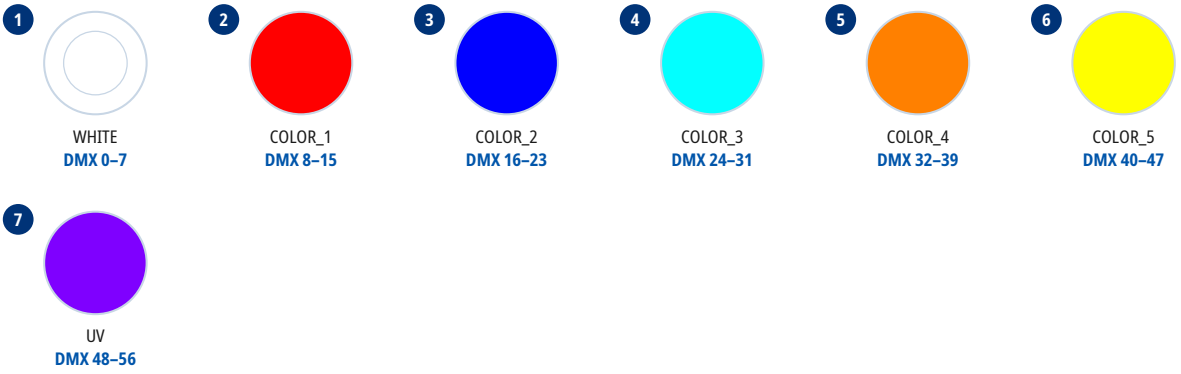
- The device occupies as many consecutive channels in the DMX universe as the selected DMX mode uses, starting at the set start address.
- Number of channels occupied in the DMX mode “EXTEND_44CH”: 44.
- Choose start addresses so that the channels of individual devices do not overlap and the last occupied 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 “EXTEND_44CH”, you can use, for example, the start addresses 1, 45, 89, 133.
- 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

	BASIC_35CH 35 channels	STANDARD_41CH 41 channels	EXTEND_44CH 44 channels
Pan / Tilt	1, 2	1, 3	1, 3
Pan / Tilt resolution	8 bit	16 bit	16 bit
Dimmer	33	38	41
Dimmer resolution	8 bit	16 bit	16 bit
Shutter / strobe	34	40	43
Color mixing	4–6	6–8	6–8
Color temperature	7	9	9
Color wheel	10	12	12
Gobo wheel	11, 13, 14	13, 16, 17	14, 17, 18
Gobo rotation	12, 15	14, 18	15, 19
Prism	16	19	20
Frost	17, 18	20, 21	21, 22
Zoom	20	23	25
Focus	21, 22	25, 27	27, 29
Iris	19	22	23
Effects / macros	8	10	10

Color wheel



1 WHITE DMX 0–7
2 COLOR_1 DMX 8–15
3 COLOR_2 DMX 16–23
4 COLOR_3 DMX 24–31
5 COLOR_4 DMX 32–39
6 COLOR_5 DMX 40–47
7 UV DMX 48–56

Gobo wheel 1

1	WHITE	DMX 0–10	5 GOBO_4	DMX 26–30	9 GOBO_8	DMX 46–50
2	GOBO_1	DMX 11–15	6 GOBO_5	DMX 31–35	10 GOBO_9	DMX 51–55
3	GOBO_2	DMX 16–20	7 GOBO_6	DMX 36–40	11 GOBO_10	DMX 56–61
4	GOBO_3	DMX 21–25	8 GOBO_7	DMX 41–45		

Gobo wheel 2

1	WHITE	DMX 0–10	4 GOBO_3	DMX 27–34	7 GOBO_6	DMX 51–58
2	GOBO_1	DMX 11–18	5 GOBO_4	DMX 35–42	8 GOBO_7	DMX 59–67
3	GOBO_2	DMX 19–26	6 GOBO_5	DMX 43–50		

Prism

1

White
DMX 0–10

2

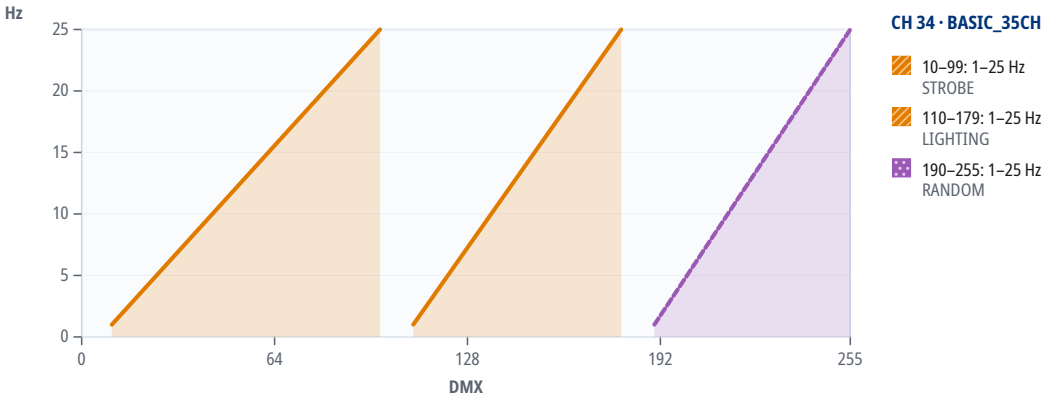


4 facets
0-360
DMX 11–145

Gobo wheel 3

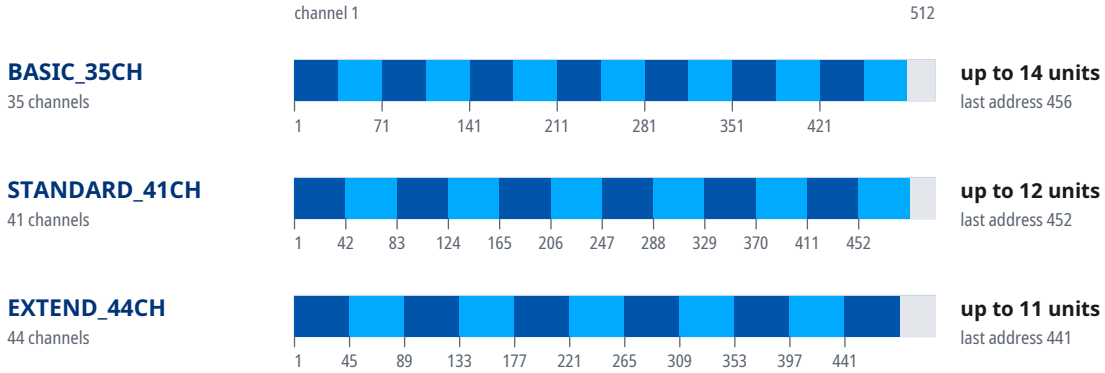
1	OPEN	DMX 0–127	2 INSERT	DMX 128–255

Strobe rate



9 DMX channels

Units in one DMX universe



Start addresses of 20 units in the mode “EXTEND_44CH”

Unit	Start address	Unit	Start address	Unit	Start address	Unit	Start address
1	1	6	221	11	441	16	U2 · 177
2	45	7	265	12	U2 · 1	17	U2 · 221
3	89	8	309	13	U2 · 45	18	U2 · 265
4	133	9	353	14	U2 · 89	19	U2 · 309
5	177	10	397	15	U2 · 133	20	U2 · 353

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 BASIC_35CH

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 33 Dimmer above 0. The GDTF file gives these values for a console's Highlight function: CH 4 Cyan 0, CH 5 Magenta 0, CH 6 Yellow 0, CH 33 Dimmer 255.

Channel functions at a glance



CH	Function	DMX	Description
1	Pan	0–126	Pan 1
		127	Home
		128–255	Pan 1
2	Tilt	0–126	Tilt 1
		127	Home
		128–255	Tilt 1
3	Speed Pan/Tilt	0–255	PTSPEED
4	Cyan	0–255	
5	Magenta	0–255	
6	Yellow	0–255	
7	CTO	0–255	6800–2700 K
8	Color Macro	0–19	NO FUNCTION
		20–21	3000K
		22–23	3200K
		24–25	3500K
		26–27	4000K
		28–29	4500K
		30–31	5000K
		32–33	5400K
		34–35	5600K
		36–37	6000K
		38–39	6500K
		40–41	6800K
		42–63	MIX
		64–255	EFFECT
9	Color Mix Speed		CMYK SPEED
		0–255	CMYK SPEED
10	Colors	0–7	WHITE
		8–15	COLOR_1
		16–23	COLOR_2
		24–31	COLOR_3
		32–39	COLOR_4
		40–47	COLOR_5
		48–55	COLOR_6
		56–191	Whell
		192–222	>>> (30–0 °/s)
		223–224	RAINBOW: STOP
		225–255	<<< (0–30 °/s)
11	Gobo	0–10	WHITE
		11–18	GOBO_1

CH	Function	DMX	Description
11	Gobo (continued)	19–26	GOBO_2
		27–34	GOBO_3
		35–42	GOBO_4
		43–50	GOBO_5
		51–58	GOBO_6
		59–66	GOBO_7
		67–74	SHAKE_1
		75–82	SHAKE_2
		83–90	SHAKE_3
		91–98	SHAKE_4
		99–106	SHAKE_5
		107–114	SHAKE_6
		115–122	SHAKE_7
		123–127	WHITE2
		128–190	>>> (300–0 °/s)
		191–192	Gobo 1 Select Effects: STOP
		193–255	<<< (0–300 °/s)
12	Gobo Rotation	0–120	0-360
		121–125	Gobo 1 Pos: STOP1
		126–165	SHAKE (1–30 Hz)
		166–170	Shake: STOP2
		171–210	>>> (300–0 °/s)
		211–215	Rot: STOP3
		216–255	<<< (0–300 °/s)
13	Gobo 2	0–10	WHITE
		11–15	GOBO_1
		16–20	GOBO_2
		21–25	GOBO_3
		26–30	GOBO_4
		31–35	GOBO_5
		36–40	GOBO_6
		41–45	GOBO_7
		46–50	GOBO_8
		51–55	GOBO_9
		56–60	GOBO_10
		61–65	SHAKE_1
		66–70	SHAKE_2
		71–75	SHAKE_3
		76–80	SHAKE_4
		81–85	SHAKE_5
		86–90	SHAKE_6

CH	Function	DMX	Description
13	Gobo 2 (continued)	91–95	SHAKE_7
		96–100	SHAKE_8
		101–105	SHAKE_9
		106–110	SHAKE_10
		111–127	WHITE2
		128–190	>>> (300–0 °/s)
		191–192	Gobo 2 Wheel Spin: STOP
		193–255	<<< (0–300 °/s)
14	Gobo 3	0–127	OPEN
		128–255	INSERT
15	Gobo 3 Rotation Speed	0–10	STOP1
		11–127	<<< (0–300 °/s)
		128–138	STOP2
		139–255	>>> (300–0 °/s)
16	Prism	0–10	White
		11–145	0-360
		146–150	Prism 1: stop1
		151–200	<<< (108000–0 °/s)
		201–205	Prism 1 Pos Rotate: stop
		206–255	>>> (0–108000 °/s)
17	Frost	0–255	
18	Frost 2	0–255	
19	Iris	0–127	IRIS
		128–130	Iris: CLOSE
		131–171	Iris Pulse Close: FAST (1–3 Hz)
		172–211	FADE (1–3 Hz)
		212–251	Iris Strobe Random: FAST (1–3 Hz)
		252–255	Close
20	Zoom	0	MAX
		1–126	MAX ... CENTER
		127	CENTER
		128–254	CENTER ... MIN
		255	MIN
21	Focus	0–255	
22	Focus 2		auto Focus 2 1
		0–255	Auto Focus 2 1
23	Focus 2 Fine	0–255	Fine adjustment of CH 22
24	Blade 1 A	0–255	
25	Blade 1 B	0–255	
26	Blade 2 A	0–255	
27	Blade 2 B	0–255	

CH	Function	DMX	Description
28	Blade 3 A	0–255	
29	Blade 3 B	0–255	
30	Blade 4 A	0–255	
31	Blade 4 B	0–255	
32	Shaper Rotation	0–126	Shaper Rot 1
		127	Center
		128–255	Shaper Rot 1
33	Dimmer	0–255	
34	Shutter	0–9	NO FUNCTION1
		10–99	STROBE (1–25 Hz)
		100–109	NO FUNCTION2
		110–179	LIGHTING (1–25 Hz)
		180–189	NO FUNCTION3
		190–255	RANDOM (1–25 Hz)
35	Control	0–10	NO FUNCTION
		11–20	PT BLACK ACTIVATED
		21–30	PT BLACK DEACTIVATED
		31–40	PAN INVERT
		41–50	TILT INVERT
		51–60	PT INVERT OFF
		61–70	STUDIO
		71–80	POWER
		81–100	LIVE
		101–110	DIM4
		111–120	DIM3
		121–130	DIM2
		131–140	DIM1
		141–150	DIM0
		151–160	1200HZ
		161–170	2400HZ
		171–180	4000HZ
		181–190	6000HZ
		191–200	25000HZ
		201–210	ALL RESET
		211–220	XY RESET
		221–230	COLOR RESET
		231–255	OTHER RESET

Mode STANDARD_41CH

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 38 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 38 Dimmer 255.

Channel functions at a glance



CH	Function	DMX	Description
1	Pan	0–127	Pan 1
		127	Home
		128–255	Pan 1
2	Pan Fine	0–255	Fine adjustment of CH 1
3	Tilt	0–127	Tilt 1
		127	Home
		128–255	Tilt 1
4	Tilt Fine	0–255	Fine adjustment of CH 3
5	Speed Pan/Tilt	0–255	PTSPEED
6	Cyan	0–255	
7	Magenta	0–255	
8	Yellow	0–255	
9	CTO	0–255	6800–2700 K
10	Color Macro		Same as CH 8 in the mode “BASIC_35CH” (p. 12)
11	Color Mix Speed		Same as CH 9 in the mode “BASIC_35CH” (p. 12)
12	Colors		Same as CH 10 in the mode “BASIC_35CH” (p. 12)
13	Gobo		Same as CH 11 in the mode “BASIC_35CH” (p. 12)
14	Gobo Rotation		Same as CH 12 in the mode “BASIC_35CH” (p. 13)
15	Gobo Rotation Fine	0–255	Fine adjustment of CH 14
16	Gobo 2		Same as CH 13 in the mode “BASIC_35CH” (p. 13)
17	Gobo 3		Same as CH 14 in the mode “BASIC_35CH” (p. 14)
18	Gobo 3 Rotation Speed		Same as CH 15 in the mode “BASIC_35CH” (p. 14)
19	Prism		Same as CH 16 in the mode “BASIC_35CH” (p. 14)
20	Frost	0–255	
21	Frost 2	0–255	
22	Iris		Same as CH 19 in the mode “BASIC_35CH” (p. 14)
23	Zoom	0–127	MAX ... CENTER
		127	CENTER
		128–255	CENTER ... MIN
		255	MIN
24	Zoom Fine	0–255	Fine adjustment of CH 23
25	Focus	0–255	
26	Focus Fine	0–255	Fine adjustment of CH 25
27	Focus 2		Same as CH 22 in the mode “BASIC_35CH” (p. 14)
28	Focus 2 Fine	0–255	Fine adjustment of CH 27
29	Blade 1 A	0–255	
30	Blade 1 B	0–255	
31	Blade 2 A	0–255	
32	Blade 2 B	0–255	
33	Blade 3 A	0–255	

CH	Function	DMX	Description
34	Blade 3 B	0–255	
35	Blade 4 A	0–255	
36	Blade 4 B	0–255	
37	Shaper Rotation		Same as CH 32 in the mode “BASIC_35CH” (p. 15)
38	Dimmer	0–255	
39	Dimmer Fine	0–255	Fine adjustment of CH 38
40	Shutter		Same as CH 34 in the mode “BASIC_35CH” (p. 15)
41	Control		Same as CH 35 in the mode “BASIC_35CH” (p. 15)

Mode EXTEND_44CH

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 41 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 41 Dimmer 255.

Channel functions at a glance



CH	Function	DMX	Description
1	Pan		Same as CH 1 in the mode “STANDARD_41CH” (p. 17)
2	Pan Fine	0–255	Fine adjustment of CH 1
3	Tilt		Same as CH 3 in the mode “STANDARD_41CH” (p. 17)
4	Tilt Fine	0–255	Fine adjustment of CH 3
5	Speed Pan/Tilt	0–255	PTSPEED
6	Cyan	0–255	
7	Magenta	0–255	
8	Yellow	0–255	
9	CTO	0–255	6800–2700 K
10	Color Macro		Same as CH 8 in the mode “BASIC_35CH” (p. 12)
11	Color Mix Speed		Same as CH 9 in the mode “BASIC_35CH” (p. 12)
12	Colors	0–7	WHITE
		8–15	COLOR_1
		16–23	COLOR_2
		24–31	COLOR_3
		32–39	COLOR_4
		40–47	COLOR_5
		48–55	COLOR_6
		56–191	Whell
		191–222	>>> (30–0 °/s)
		223–224	RAINBOW: STOP
		225–255	<<< (0–30 °/s)
13	Colors Fine	0–255	Fine adjustment of CH 12
14	Gobo		Same as CH 11 in the mode “BASIC_35CH” (p. 12)
15	Gobo Rotation		Same as CH 12 in the mode “BASIC_35CH” (p. 13)
16	Gobo Rotation Fine	0–255	Fine adjustment of CH 15
17	Gobo 2		Same as CH 13 in the mode “BASIC_35CH” (p. 13)
18	Gobo 3		Same as CH 14 in the mode “BASIC_35CH” (p. 14)
19	Gobo 3 Rotation Speed		Same as CH 15 in the mode “BASIC_35CH” (p. 14)
20	Prism		Same as CH 16 in the mode “BASIC_35CH” (p. 14)
21	Frost	0–255	
22	Frost 2	0–255	
23	Iris	0–127	IRIS
		128–130	Iris: CLOSE
		131–171	Iris Pulse Close: FAST (1–3 Hz)
		171–211	FADE (1–3 Hz)
		211–251	Iris Strobe Random: FAST (1–3 Hz)
		251–255	Close
24	Iris Fine	0–255	Fine adjustment of CH 23
25	Zoom		Same as CH 23 in the mode “STANDARD_41CH” (p. 17)

CH	Function	DMX	Description
26	Zoom Fine	0–255	Fine adjustment of CH 25
27	Focus	0–255	
28	Focus Fine	0–255	Fine adjustment of CH 27
29	Focus 2		Same as CH 22 in the mode “BASIC_35CH” (p. 14)
30	Focus 2 Fine	0–255	Fine adjustment of CH 29
31	Blade 1 A	0–255	
32	Blade 1 B	0–255	
33	Blade 2 A	0–255	
34	Blade 2 B	0–255	
35	Blade 3 A	0–255	
36	Blade 3 B	0–255	
37	Blade 4 A	0–255	
38	Blade 4 B	0–255	
39	Shaper Rotation	0–127	Shaper Rot 1
		127	Center
		128–255	Shaper Rot 1
40	Shaper Rotation Fine	0–255	Fine adjustment of CH 39
41	Dimmer	0–255	
42	Dimmer Fine	0–255	Fine adjustment of CH 41
43	Shutter		Same as CH 34 in the mode “BASIC_35CH” (p. 15)
44	Control		Same as CH 35 in the mode “BASIC_35CH” (p. 15)

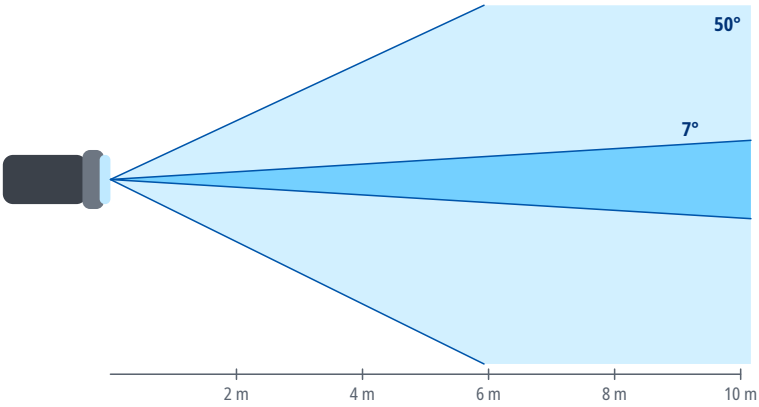
10 Technical specifications

Parameter	Value
Light	
Light source	LED
LED power	600 W
Luminous flux	20,428 lm
Color temperature	7,835 K
Color rendering index (CRI)	85
Optics	
Zoom	7–50°
Movement	
Pan	540°
Tilt	270°
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	36 kg
Operating environment	
Operating temperature	-20 to 45 °C

Speeds and ranges

Parameter	Value
Color temperature range	2700–6800 K
Strobe frequency	1–25 Hz
Color wheel rotation	up to 30 °/s (5 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 300 °/s (50 rpm)
Gobo 3 rotation	up to 300 °/s (50 rpm)
Prism rotation	up to 108000 °/s (18000 rpm)

Spot diameter



Distance	Ø 7°	Ø 50°
2 m	0.24 m	1.9 m
4 m	0.49 m	3.7 m
6 m	0.73 m	5.6 m
8 m	0.98 m	7.5 m
10 m	1.2 m	9.3 m
15 m	1.8 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.