DMX REFERENCE

Fuze 75 Spot

BeamZ Pro



Manufacturer	BeamZ Pro
GDTF file	BeamZ_Pro_Fuze_75_Spot_154404.gdtf
GDTF revision	rev100 RELEASE · 2026-08-06
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Contents

1 About this manual 2
2 Quick reference 3
3 Safety instructions 4
4 Product description 5
5 Installation 6
6 Connections 6
7 Operation 7
8 Functions at a glance 7
9 DMX channels 9
Mode 13 Ch 9
Mode 11 Ch 13
10 Technical specifications 14
11 Maintenance and cleaning 15
12 Troubleshooting 15
13 Disposal 16

1 About this manual

This document describes the Fuze75spot by BeamZ Pro. It was compiled from the GDTF file BeamZ_Pro_Fuze_75_Spot_154404.gdtf from the GDTF-Share library.

File revision: “rev100 RELEASE”.

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 BeamZ Pro; 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	5.3 kg
Ingress protection	IP20

DMX modes

Mode	Channels	Units in one universe	First start addresses
13 Ch	13	39	1, 14, 27, 40, ...
11 Ch	11	46	1, 12, 23, 34, ...

No light? Check these channels

- 13 Ch: CH 7 Shutter at 32–63, 96–127, 160–189 or 224–255 “Shutter OPEN”
- 11 Ch: CH 5 Shutter at 32–63, 96–127, 160–189 or 224–255 “Shutter 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.
- Ingress protection rating: IP20.
- 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

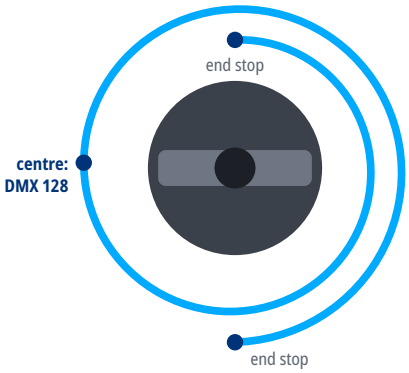
Description in the GDTF file

“Moving Head Spot:: IP20 :: 1 x 75 W coldwhite LED (6500 K) / 1 x color wheel (8 + Open, wheel spin) / 1 x gobo wheel (6 + Open , gobo shake , wheel spin) / 1 x prism 3-facet / beam angle 12 degrees”

Range of movement

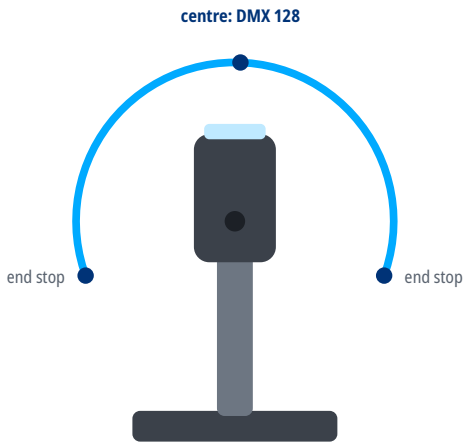
Pan 540°

top view



Tilt 220°

side view



5 Installation

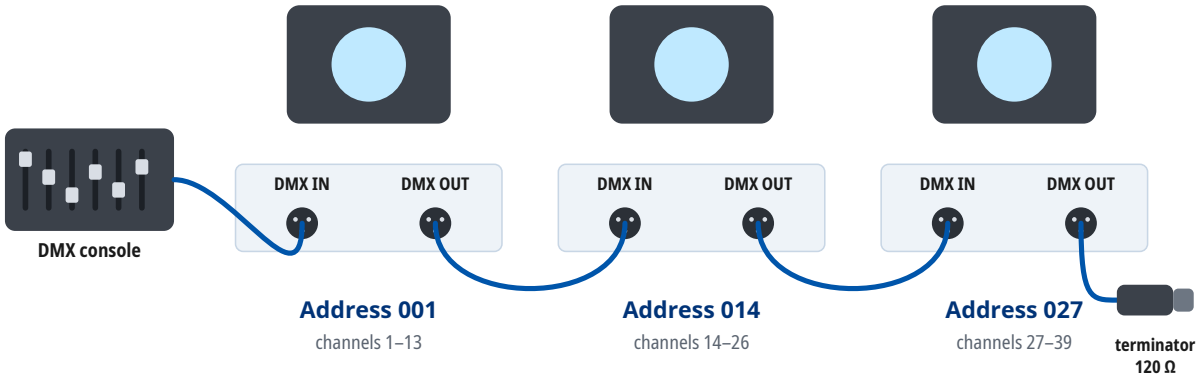
⚠ **WARNING**

- 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: 5.3 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 13 Ch: every unit occupies 13 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 “13 Ch”: 13.
- 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 “13 Ch”, you can use, for example, the start addresses 1, 14, 27, 40.
- 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

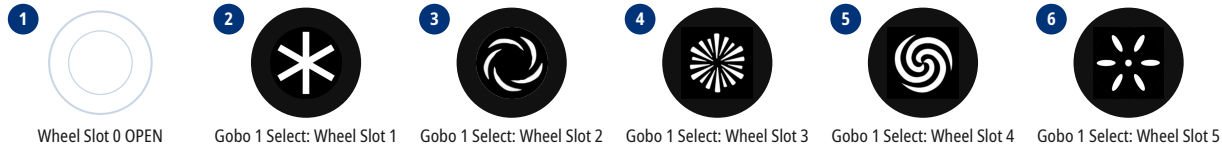
	13 Ch 13 channels	11 Ch 11 channels
Pan / Tilt	1, 3	1, 2
Pan / Tilt resolution	16 bit	8 bit
Dimmer	8	6
Shutter / strobe	7	5
Color wheel	5	3
Gobo wheel	6	4
Prism	10, 11	8, 9
Focus	9	7

Color wheel



1. Wheel Slot 0 OPEN — **DMX 0–14**
2. Wheel Slot 1 — **DMX 15–29**
3. Wheel Slot 2 — **DMX 30–44**
4. Wheel Slot 3 — **DMX 45–59**
5. Wheel Slot 4 — **DMX 60–74**
6. Wheel Slot 5 — **DMX 75–89**
7. Wheel Slot 6 — **DMX 90–104**
8. Wheel Slot 7 — **DMX 105–119**
9. Wheel Slot 8 — **DMX 120–128**

Gobo wheel



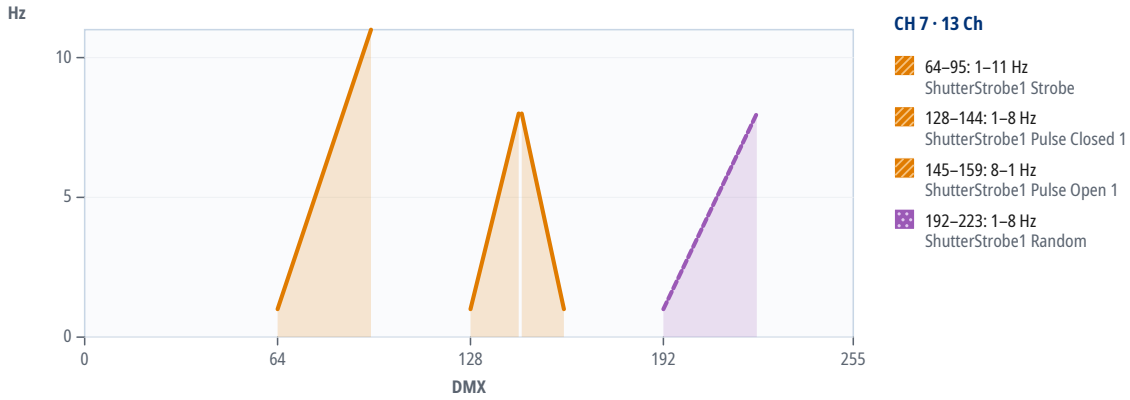
1. Wheel Slot 0 OPEN — **DMX 0–9**
2. Gobo 1 Select: Wheel Slot 1 — **DMX 10–19**
3. Gobo 1 Select: Wheel Slot 2 — **DMX 20–29**
4. Gobo 1 Select: Wheel Slot 3 — **DMX 30–39**
5. Gobo 1 Select: Wheel Slot 4 — **DMX 40–49**
6. Gobo 1 Select: Wheel Slot 5 — **DMX 50–59**
7. Wheel Slot 6 — **DMX 60–70**

Prism



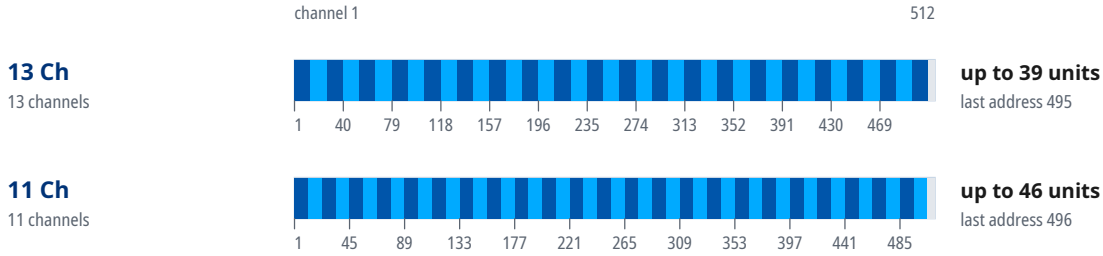
1. 1 facet — Wheel Slot 0 OPEN — **DMX 0–5**
2. 3 facets — Wheel Slot 1 — **DMX 6–255**

Strobe rate



9 DMX channels

Units in one DMX universe



Start addresses of 20 units in the mode “13 Ch”

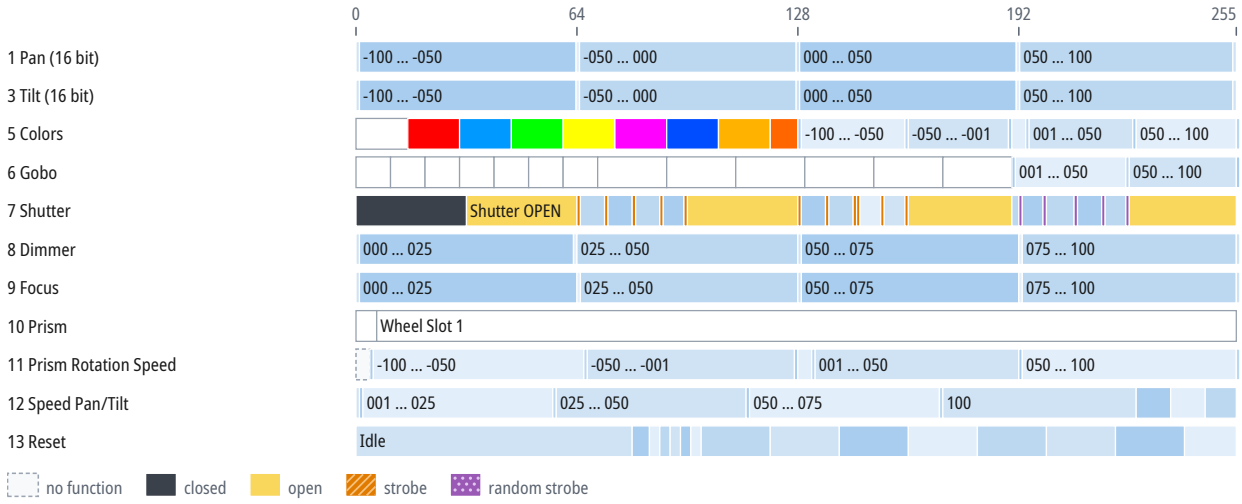
Unit	Start address	Unit	Start address	Unit	Start address	Unit	Start address
1	1	6	66	11	131	16	196
2	14	7	79	12	144	17	209
3	27	8	92	13	157	18	222
4	40	9	105	14	170	19	235
5	53	10	118	15	183	20	248

Mode 13 Ch

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 7 Shutter at 32–63, 96–127, 160–189 or 224–255 “Shutter OPEN”. The GDTF file gives these values for a console's Highlight function: CH 5 Colors 0, CH 7 Shutter 255, CH 8 Dimmer 255.

Channel functions at a glance



CH	Function	DMX	Description
1	Pan	0	-100
		1–63	-100 … -050
		64	-050
		65–127	-050 … 000
		128	000

CH	Function	DMX	Description
1	Pan (continued)	129–191	000 … 050
		192	050
		193–254	050 … 100
		255	100
2	Pan Fine	0–255	Fine adjustment of CH 1
3	Tilt	0	-100
		1–63	-100 … -050
		64	-050
		65–127	-050 … 000
		128	000
		129–191	000 … 050
		192	050
		193–254	050 … 100
		255	100
4	Tilt Fine	0–255	Fine adjustment of CH 3
5	Colors	0–14	Wheel Slot 0 OPEN
		15–29	Wheel Slot 1
		30–44	Wheel Slot 2
		45–59	Wheel Slot 3
		60–74	Wheel Slot 4
		75–89	Wheel Slot 5
		90–104	Wheel Slot 6
		105–119	Wheel Slot 7
		120–127	Wheel Slot 8
		128	-100
		129–158	-100 … -050
		159	-050
		160–188	-050 … -001
		189	-001
		190–193	000
		194	001
		195–224	001 … 050
		225	050
		226–254	050 … 100
		255	100
6	Gobo	0–9	Wheel Slot 0 OPEN
		10–19	Gobo 1 Select: Wheel Slot 1
		20–29	Gobo 1 Select: Wheel Slot 2
		30–39	Gobo 1 Select: Wheel Slot 3
		40–49	Gobo 1 Select: Wheel Slot 4
		50–59	Gobo 1 Select: Wheel Slot 5
		60–69	Gobo 1 Select: Wheel Slot 6

CH	Function	DMX	Description
6	Gobo (continued)	70–89	Gobo 1 Select Shake: Wheel Slot 1
		90–109	Gobo 1 Select Shake: Wheel Slot 2
		110–129	Gobo 1 Select Shake: Wheel Slot 3
		130–149	Gobo 1 Select Shake: Wheel Slot 4
		150–169	Gobo 1 Select Shake: Wheel Slot 5
		170–189	Gobo 1 Select Shake: Wheel Slot 6
		190	001
		191–222	001 … 050
		223	050
		224–254	050 … 100
		255	100
7	Shutter	0–31	Shutter CLOSED
		32–63	Shutter OPEN
		64	Shutter Strobe 1 Strobe: 001
		65–71	Shutter Strobe 1 Strobe: 001 … 025
		72	Shutter Strobe 1 Strobe: 025
		73–79	Shutter Strobe 1 Strobe: 025 … 050
		80	Shutter Strobe 1 Strobe: 050
		81–87	Shutter Strobe 1 Strobe: 050 … 075
		88	Shutter Strobe 1 Strobe: 075
		89–94	Shutter Strobe 1 Strobe: 075 … 100
		95	Shutter Strobe 1 Strobe: 100
		96–127	Shutter 1 OPEN: Shutter OPEN
		128	Shutter Strobe 1 Pulse Closed: 001
		129–135	001 … 050
		136	Shutter Strobe 1 Pulse Closed: 050
		137–143	050 … 100
		144	Shutter Strobe 1 Pulse Closed: 100
		145	Shutter Strobe 1 Pulse Open: 100
		146–151	100 … 050
		152	Shutter Strobe 1 Pulse Open: 050
		153–158	050 … 001
		159	Shutter Strobe 1 Pulse Open: 001
		160–189	Shutter 1 OPEN: Shutter OPEN
		190–191	Shutter 1 OPEN 2
		192	Shutter Strobe 1 Random: 001
		193–198	Shutter Strobe 1 Random: 001 … 025
		199	Shutter Strobe 1 Random: 025
		200–207	Shutter Strobe 1 Random: 025 … 050
		208	Shutter Strobe 1 Random: 050
		209–215	Shutter Strobe 1 Random: 050 … 075
		216	Shutter Strobe 1 Random: 075

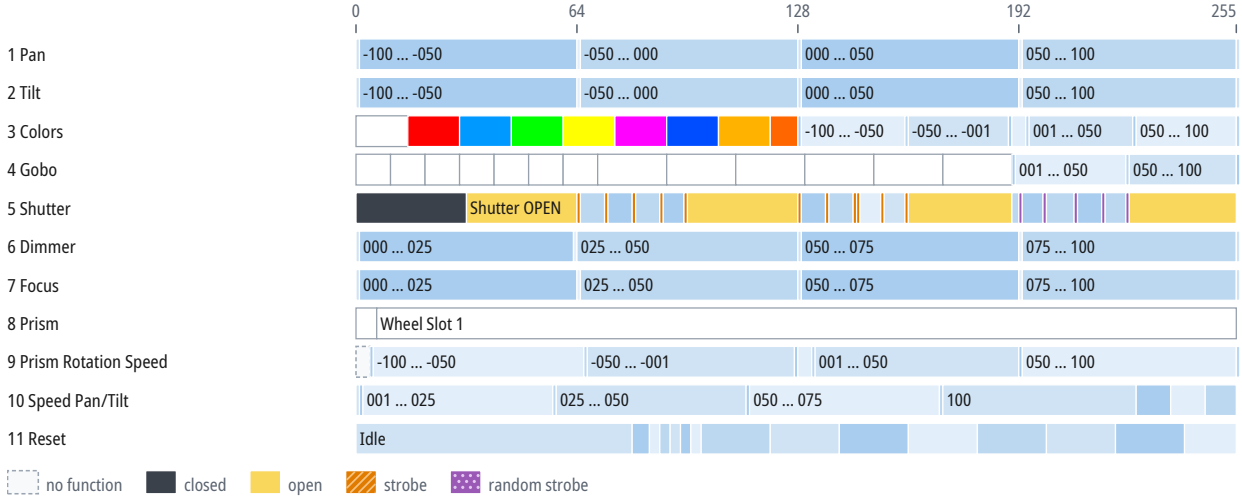
CH	Function	DMX	Description
7	Shutter (continued)	217–222	Shutter Strobe 1 Random: 075 ... 100
		223	Shutter Strobe 1 Random: 100
		224–255	Shutter 1 OPEN: Shutter OPEN
8	Dimmer	0	000
		1–62	000 ... 025
		63	025
		64–127	025 ... 050
		128	050
		129–191	050 ... 075
		192	075
		193–254	075 ... 100
		255	100
9	Focus	0	000
		1–63	000 ... 025
		64	025
		65–127	025 ... 050
		128	050
		129–191	050 ... 075
		192	075
		193–254	075 ... 100
		255	100
10	Prism	0–5	Wheel Slot 0 OPEN
		6–255	Wheel Slot 1
11	Prism Rotation Speed	0–3	No Function
		4	-100
		5–65	-100 ... -050
		66	-050
		67–126	-050 ... -001
		127	-001
		128–131	000
		132	001
		133–191	001 ... 050
		192	050
		193–254	050 ... 100
		255	100
12	Speed Pan/Tilt	0	000
		1	001
		2–56	001 ... 025
		57	025
		58–112	025 ... 050
		113	050
		114–168	050 ... 075

CH	Function	DMX	Description
12	Speed Pan/Tilt (continued)	169	075
		170–225	100
		226–235	MiB: P/T
		236–245	MiB: FX
		246–255	Idle
13	Reset	0–79	Idle
		80–84	Reset: ALL
		85–87	Reset: P/T
		88–90	Reset: Color
		91–93	Reset: Gobo
		94–96	Idle
		97–99	Reset: Misc
		100–119	AutoProgram 1
		120–139	AutoProgram 2
		140–159	AutoProgram 3
		160–179	AutoProgram 4
		180–199	AutoProgram 5
		200–219	AutoProgram 6
		220–239	AutoProgram 7
		240–255	Sound-to-Light

Mode 11 Ch

If the device receives DMX in this mode but gives no light, check these channels: CH 5 Shutter at 32–63, 96–127, 160–189 or 224–255 “Shutter OPEN”. The GDTF file gives these values for a console's Highlight function: CH 3 Colors 0, CH 5 Shutter 255, CH 6 Dimmer 255.

Channel functions at a glance



CH	Function	DMX	Description
1	Pan		Same as CH 1 in the mode “13 Ch” (p. 9)
2	Tilt		Same as CH 3 in the mode “13 Ch” (p. 10)
3	Colors		Same as CH 5 in the mode “13 Ch” (p. 10)
4	Gobo		Same as CH 6 in the mode “13 Ch” (p. 10)
5	Shutter		Same as CH 7 in the mode “13 Ch” (p. 11)
6	Dimmer		Same as CH 8 in the mode “13 Ch” (p. 12)
7	Focus		Same as CH 9 in the mode “13 Ch” (p. 12)
8	Prism		Same as CH 10 in the mode “13 Ch” (p. 12)
9	Prism Rotation Speed		Same as CH 11 in the mode “13 Ch” (p. 12)
10	Speed Pan/Tilt		Same as CH 12 in the mode “13 Ch” (p. 12)
11	Reset		Same as CH 13 in the mode “13 Ch” (p. 13)

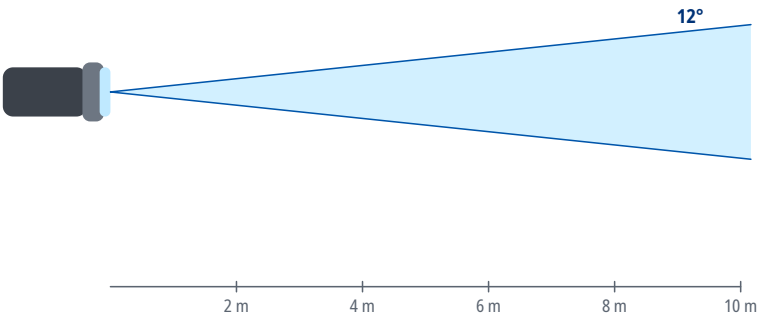
10 Technical specifications

Parameter	Value
Light	
Light source	LED
LED power	75 W
Luminous flux	2,000 lm
Color temperature	7,000 K
Color rendering index (CRI)	75
Optics	
Beam angle	12°
Movement	
Pan	540°
Tilt	220°
Control	
DMX connection	3-pin XLR IN/OUT
Electrical	
Power supply	100–240 V, 50/60 Hz
Power consumption	850 W
Power connectors	powerCON TRUE1 IN/OUT
Dimensions and construction	
Weight	5.3 kg
Operating environment	
Ingress protection	IP20
Meaning of the IP code (IEC 60529)	Protected against contact with a finger and solid objects of 12.5 mm diameter and larger; no protection against water
Operating temperature	-5 to 45 °C

Speeds and ranges

Parameter	Value
Strobe frequency	1–11 Hz
Color wheel rotation	up to 240 °/s (40 rpm)
Gobo wheel rotation	up to 240 °/s (40 rpm)
Prism rotation	up to 360 °/s (60 rpm)

Spot diameter



Distance	Ø 12°
2 m	0.42 m
4 m	0.84 m
6 m	1.3 m
8 m	1.7 m
10 m	2.1 m
15 m	3.2 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.

Problem	Remedy
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.