DMX REFERENCE

ACME XP-260 BEAM

ACME



Manufacturer	ACME
GDTF file	ACME_ACME_XP-260_BEAM_2294.gdtf
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1 About this manual

This document describes the ACME XP-260 BEAM by ACME. It was compiled from the GDTF file ACME_ACME_XP-260_BEAM_2294.gdtf from the GDTF-Share library.

File revision: “ACME XP-260 BEAM, Uploaded to GDTF Share.”.

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 ACME; 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

DMX modes

Mode	Channels	Units in one universe	First start addresses
Mode 1 16 DMX	16	32	1, 17, 33, 49, ...
Mode 2 13 DMX	13	39	1, 14, 27, 40, ...

No light? Check these channels

- Mode 1 16 DMX: CH 11 Shutter at 8–15 “Open” or 248–255; CH 12 Dimmer above 0
- Mode 2 13 DMX: CH 9 Shutter at 8–15 “Open” or 248–255; CH 10 Dimmer above 0



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

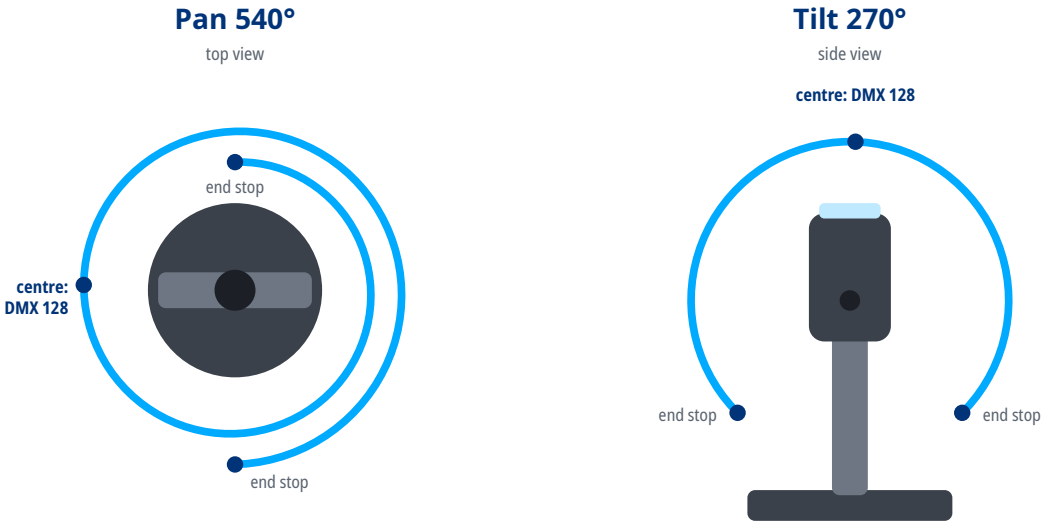
- Strobe and fast flashing light effects can trigger epileptic seizures in susceptible people (photosensitive epilepsy) and can cause nausea or disorientation.
- Inform the audience and performers in advance that strobe effects will be used, for example with a notice at the entrance, and do not use them 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.
- 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.

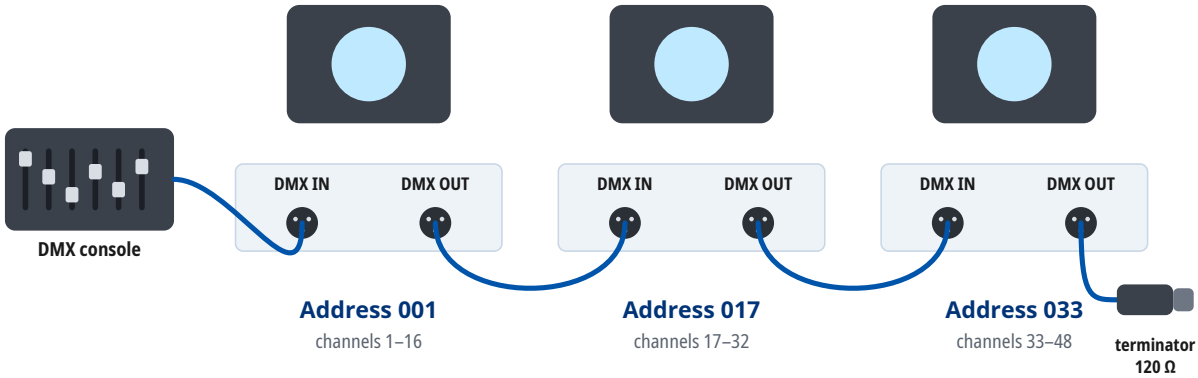
6 Connections

- 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 16 DMX: every unit occupies 16 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

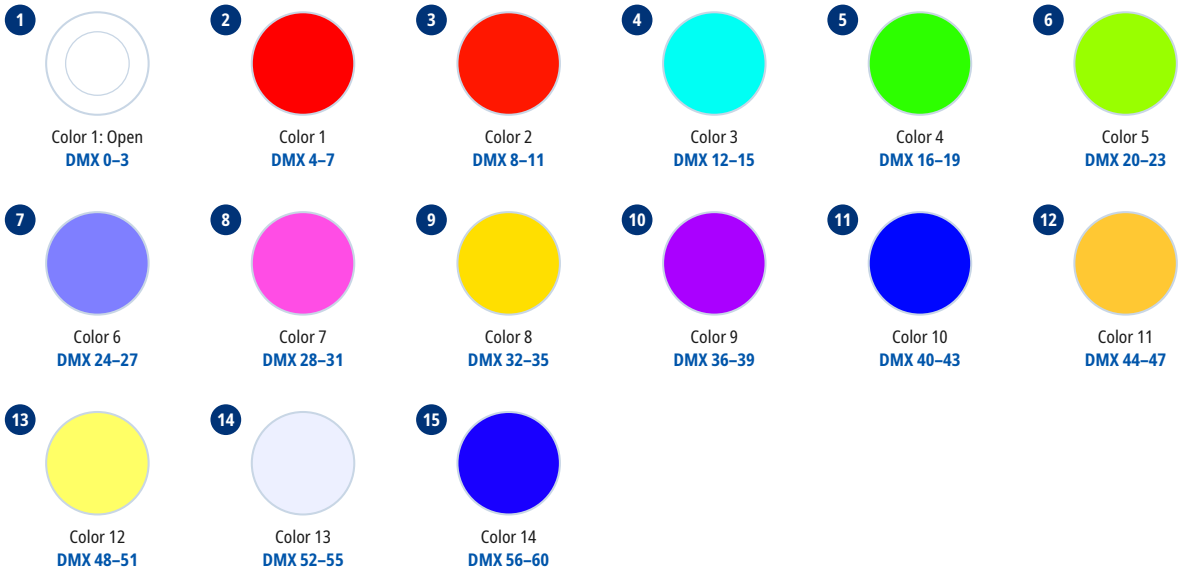
- The device occupies as many consecutive channels in the DMX universe as the selected DMX mode uses, starting at the set start address.
- Number of channels occupied in the DMX mode “Mode 1 16 DMX”: 16.
- Choose start addresses so that the channels of individual devices do not overlap and the last occupied 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 16 DMX”, you can use, for example, the start addresses 1, 17, 33, 49.
- 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 16 DMX 16 channels	Mode 2 13 DMX 13 channels
Pan / Tilt	1, 3	1, 2
Pan / Tilt resolution	16 bit	8 bit
Dimmer	12	10
Shutter / strobe	11	9
Color wheel	6	4
Gobo wheel	7	5
Gobo rotation	7	5
Prism	8–10	6–8
Frost	15	12
Focus	13	11

Color wheel



Gobo wheel



1 Gobo 1: Open
DMX 0–7

2 Gobo 1
DMX 8–10

3 Gobo 2
DMX 11–13

4 Gobo 3
DMX 14–16

5 Gobo 4
DMX 17–19

6 Gobo 5
DMX 20–22

7 Gobo 6
DMX 23–25

8 Gobo 7
DMX 26–28

9 Gobo 8
DMX 29–31

10 Gobo 9
DMX 32–34

11 Gobo 10
DMX 35–37

12 Gobo 11
DMX 38–40

13 Gobo 12
DMX 41–43

14 Gobo 13
DMX 44–46

15 Gobo 14
DMX 47–49

16 Gobo 15
DMX 50–52

17 Gobo 16
DMX 53–56

Prism 1



1 Open

2 Prism 1
DMX 8–255

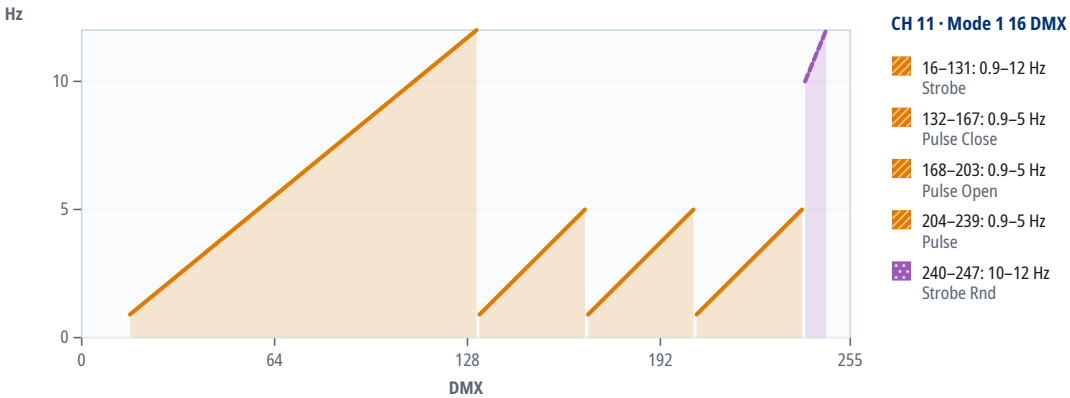
Prism 2



1 Open

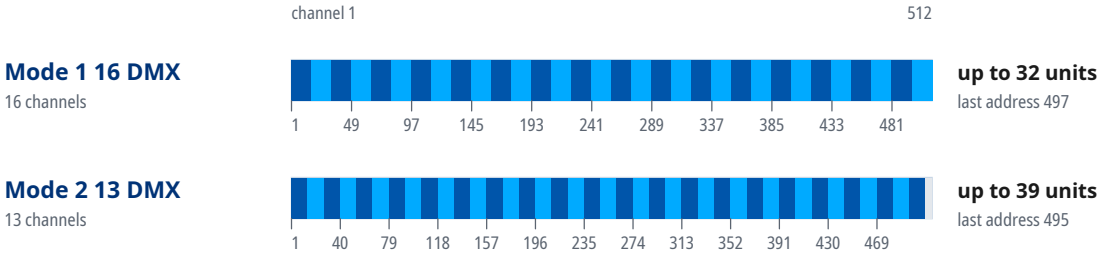
2 Prism 2
DMX 8–255

Strobe rate



9 DMX channels

Units in one DMX universe



Start addresses of 20 units in the mode “Mode 1 16 DMX”

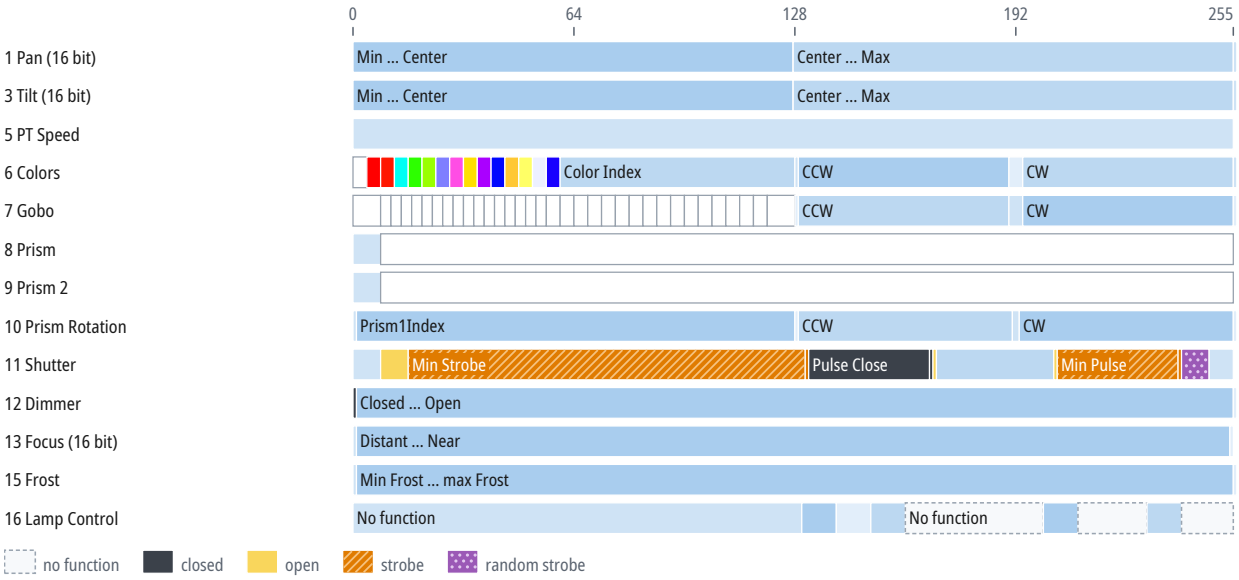
Unit	Start address	Unit	Start address	Unit	Start address	Unit	Start address
1	1	6	81	11	161	16	241
2	17	7	97	12	177	17	257
3	33	8	113	13	193	18	273
4	49	9	129	14	209	19	289
5	65	10	145	15	225	20	305

Mode 1 16 DMX

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 11 Shutter at 8–15 “Open” or 248–255; CH 12 Dimmer above 0. The GDTF file gives these values for a console's Highlight function: CH 6 Colors 0, CH 11 Shutter 10, CH 12 Dimmer 255.

Channel functions at a glance



CH	Function	DMX	Description
1	Pan	0–127	Min ... Center
		128–255	Center ... Max
		255	Max

CH	Function	DMX	Description
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	PT Speed	0–255	
6	Colors	0–3	Color 1: Open
		4–7	Color 1
		8–11	Color 2
		12–15	Color 3
		16–19	Color 4
		20–23	Color 5
		24–27	Color 6
		28–31	Color 7
		32–35	Color 8
		36–39	Color 9
		40–43	Color 10
		44–47	Color 11
		48–51	Color 12
		52–55	Color 13
		56–59	Color 14
		60–127	Color Index
		128	Max CCW
		129–189	CCW (79–1 °/s)
		190–193	Color Spin: Stop
		194–254	CW (1–79 °/s)
		255	Max CW
7	Gobo	0–7	Gobo 1: Open
		8–10	Gobo 1
		11–13	Gobo 2
		14–16	Gobo 3
		17–19	Gobo 4
		20–22	Gobo 5
		23–25	Gobo 6
		26–28	Gobo 7
		29–31	Gobo 8
		32–34	Gobo 9
		35–37	Gobo 10
		38–40	Gobo 11
		41–43	Gobo 12
		44–46	Gobo 13
		47–49	Gobo 14

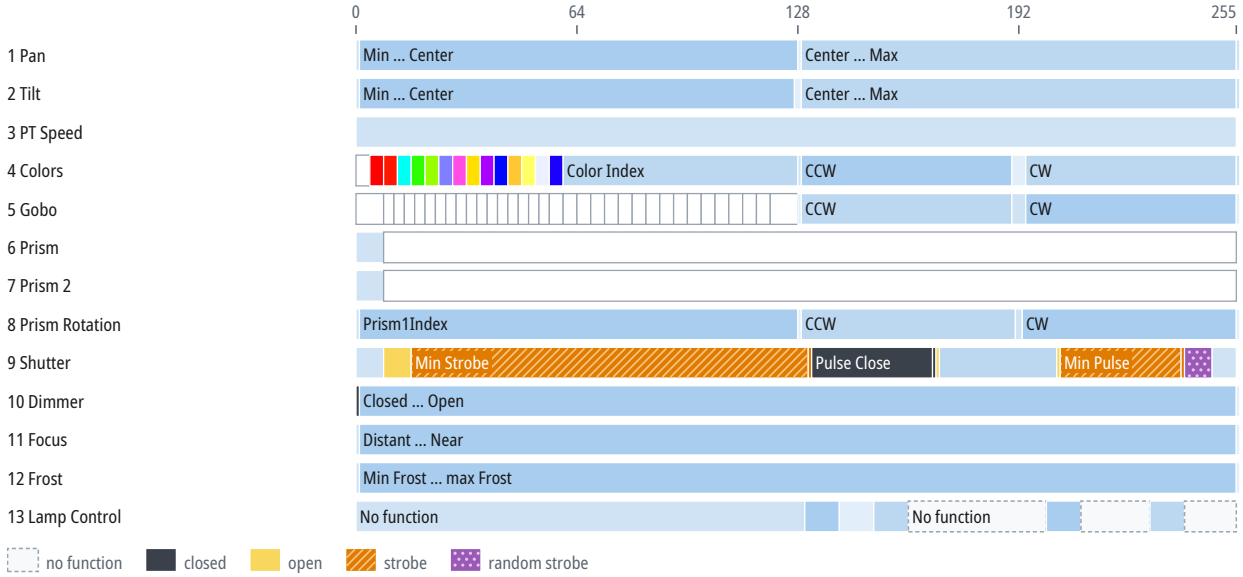
CH	Function	DMX	Description
7	Gobo (continued)	50–52	Gobo 15
		53–55	Gobo 16
		56–59	Open Shake
		60–63	Gobo 1 Shake
		64–67	Gobo 2 Shake
		68–71	Gobo 3 Shake
		72–75	Gobo 4 Shake
		76–79	Gobo 5 Shake
		80–83	Gobo 6 Shake
		84–87	Gobo 7 Shake
		88–91	Gobo 8 Shake
		92–95	Gobo 9 Shake
		96–99	Gobo 10 Shake
		100–103	Gobo 11 Shake
		104–107	Gobo 12 Shake
		108–111	Gobo 13 Shake
		112–115	Gobo 14 Shake
		116–119	Gobo 15 Shake
		120–127	Gobo 16 Shake
		128	Max CCW
		129–189	CCW (79–1 °/s)
		190–193	Gobo 1 Spin: Stop
		194–254	CW (1–79 °/s)
		255	Max CW
8	Prism	0–7	Open
		8–255	Prism 1
9	Prism 2	0–7	Open
		8–255	Prism 2
10	Prism Rotation	0	Prism 1 Pos: Open
		1–127	Prism1Index
		128	Max CCW
		129–190	CCW (49–1 °/s)
		191–192	Prism 1 Rot: Stop
		193–254	CW (1–49 °/s)
		255	Max CW
11	Shutter	0–7	Shutter 1: Off
		8–15	Shutter 1: Open
		16–130	Min Strobe (0.9–11.9 Hz)
		131	Max Strobe
		132–166	Pulse Close (0.9–4.9 Hz)
		167	Max Pulse Close
		168	Pulse Open (0.9–4.9 Hz)

CH	Function	DMX	Description
11	Shutter (continued)	169–202	Pulse Open ... max Pulse Open
		203	Max Pulse Open
		204–238	Min Pulse (0.9–4.9 Hz)
		239	Max Pulse
		240–247	Strobe Rnd (10–12 Hz)
		248–255	Open 2
12	Dimmer	0	Closed
		1–254	Closed ... Open
		255	Open
13	Focus	0	Distant
		1–254	Distant ... Near
		255	Near
14	Focus Fine	0–255	Fine adjustment of CH 13
15	Frost	0	Min Frost
		1–254	Min Frost ... max Frost
		255	Max Frost
16	Lamp Control	0–129	No function
		130–139	LAMP ON
		140–149	PT Reset
		150–159	Eff Reset
		160–199	No function
		200–209	All Reset
		210–229	No function
		230–239	LAMP OFF
		240–255	No function

Mode 2 13 DMX

If the device receives DMX in this mode but gives no light, check these channels: CH 9 Shutter at 8–15 “Open” or 248–255; CH 10 Dimmer above 0. The GDTF file gives these values for a console's Highlight function: CH 4 Colors 0, CH 9 Shutter 10, CH 10 Dimmer 255.

Channel functions at a glance



CH	Function	DMX	Description
1	Pan	0	Min
		1–127	Min ... Center
		128	Center
		129–254	Center ... Max
		255	Max
2	Tilt	0	Min
		1–126	Min ... Center
		127–128	Center
		129–254	Center ... Max
		255	Max
3	PT Speed	0–255	
4	Colors		Same as CH 6 in the mode “Mode 1 16 DMX” (p. 9)
5	Gobo		Same as CH 7 in the mode “Mode 1 16 DMX” (p. 9)
6	Prism		Same as CH 8 in the mode “Mode 1 16 DMX” (p. 10)
7	Prism 2		Same as CH 9 in the mode “Mode 1 16 DMX” (p. 10)
8	Prism Rotation		Same as CH 10 in the mode “Mode 1 16 DMX” (p. 10)
9	Shutter		Same as CH 11 in the mode “Mode 1 16 DMX” (p. 10)
10	Dimmer		Same as CH 12 in the mode “Mode 1 16 DMX” (p. 11)
11	Focus		Same as CH 13 in the mode “Mode 1 16 DMX” (p. 11)
12	Frost		Same as CH 15 in the mode “Mode 1 16 DMX” (p. 11)
13	Lamp Control		Same as CH 16 in the mode “Mode 1 16 DMX” (p. 11)

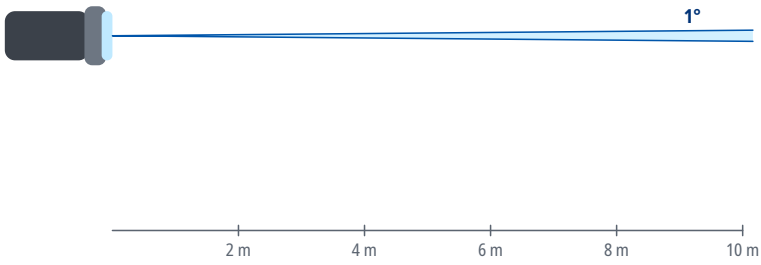
10 Technical specifications

Parameter	Value
Light	
Light source	LED
LED power	330 W
Luminous flux	3,000 lm
Color temperature	8,000 K
Color rendering index (CRI)	80
Optics	
Beam angle	1°
Movement	
Pan	540°
Tilt	270°

Speeds and ranges

Parameter	Value
Strobe frequency	0.9–12 Hz
Color wheel rotation	up to 120 °/s (20 rpm)
Gobo wheel rotation	up to 80 °/s (13 rpm)
Prism 1 rotation	up to 50 °/s (8.3 rpm)

Spot diameter



Distance	Ø 1°
2 m	0.03 m
4 m	0.07 m
6 m	0.1 m
8 m	0.14 m
10 m	0.17 m
15 m	0.26 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.