DMX REFERENCE

Double Sharpy_Beam Moving Head

Kimu



Manufacturer	Kimu
GDTF file	Kimu_Double_Sharpy_Beam_Moving_Head_134469.gdtf
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1 About this manual

This document describes the Double Sharpy/Beam Moving Head by Kimu. It was compiled from the GDTF file Kimu_Double_Sharpy_Beam_Moving_Head_134469.gdtf from the GDTF-Share library.

File revision: “Revision 9”.

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 Kimu; 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.

Note in the GDTF file

“2 sided moving head with infinite Rotation and Tilt. GDTF file is made for visulizer without collor effect but with every invidual rgbw pixel and beam”

2 Quick reference

DMX modes

Mode	Channels	Units in one universe	First start addresses
Beam	87	5	1, 88, 175, 262, ...

No light? Check these channels

- Beam: CH 7 Dimmer 1 above 0; CH 18 Dimmer 2 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.

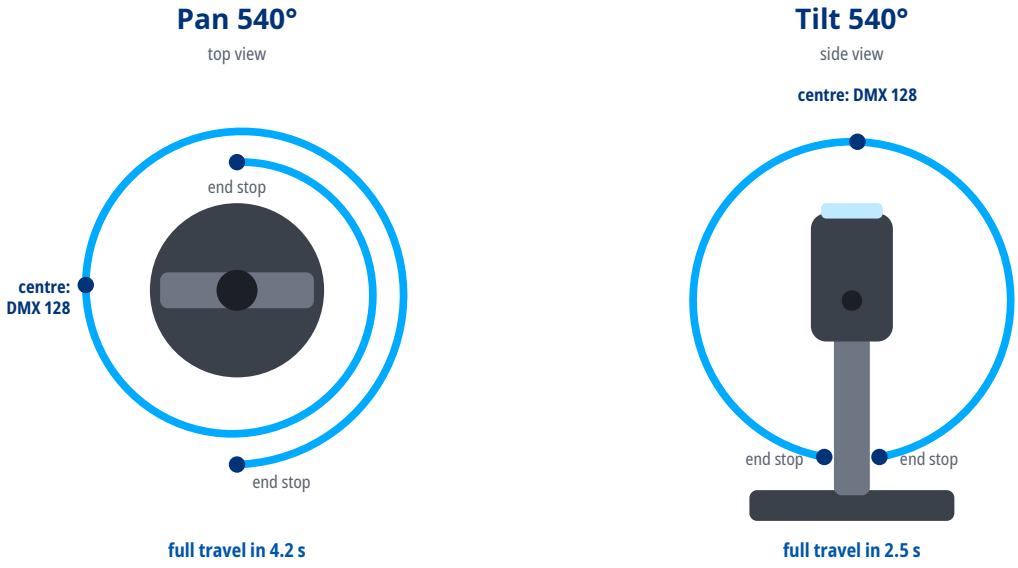
⚠ CAUTION

- 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



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.
> - 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.

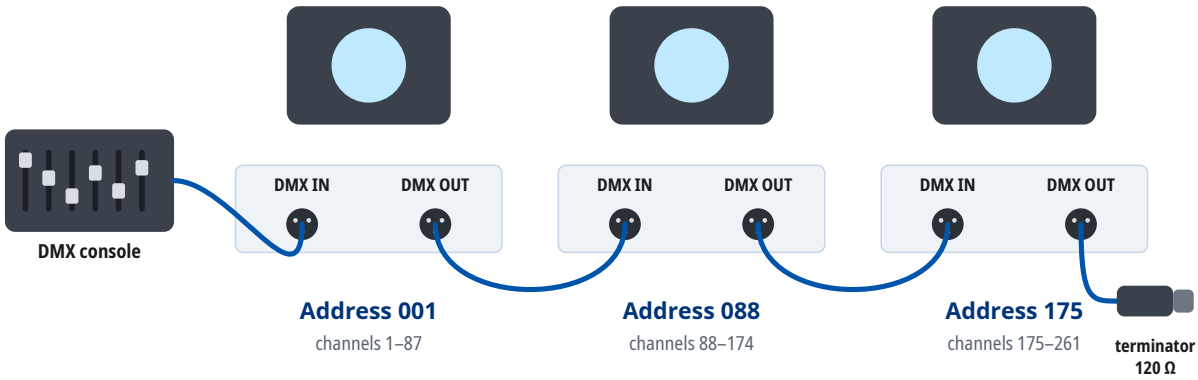
6 Connections

- 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 Beam: every unit occupies 87 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 “Beam”: 87.
- 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 “Beam”, you can use, for example, the start addresses 1, 88, 175, 262.
- 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

	Beam 87 channels
Pan / Tilt	1, 3, 5, 6
Dimmer	6 channels (7–68)
Shutter / strobe	19
Color mixing	63 channels (9–87)
Gobo wheel	✓
Pixel control	10 cells

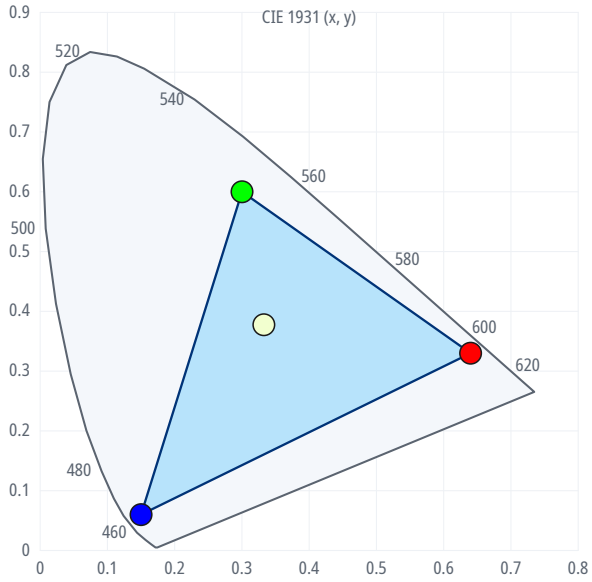
Gobo wheel

1



quadrat
DMX 0–255

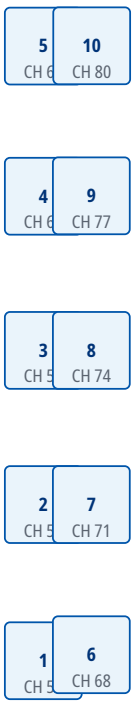
LED colors and the colors they mix



LED	x	y
r	0.640	0.330
g	0.300	0.600
b	0.150	0.060
amber	0.333	0.378

The shaded area holds the colors the LEDs can mix; the dots are the LED colors the GDTF file states.

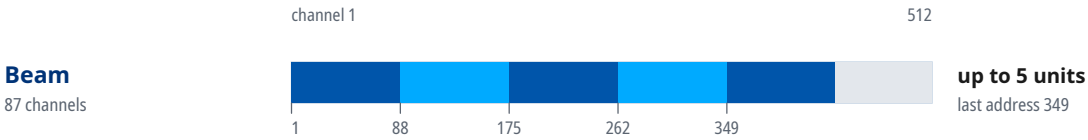
Cells (pixels)



10 cells where the GDTF file places them (seen from above), numbered by their first DMX channel (CH) in the mode “Beam”.

9 DMX channels

Units in one DMX universe



Start addresses of 20 units in the mode “Beam”

Unit	Start address	Unit	Start address	Unit	Start address	Unit	Start address
1	1	6	U2 · 1	11	U3 · 1	16	U4 · 1
2	88	7	U2 · 88	12	U3 · 88	17	U4 · 88
3	175	8	U2 · 175	13	U3 · 175	18	U4 · 175
4	262	9	U2 · 262	14	U3 · 262	19	U4 · 262
5	349	10	U2 · 349	15	U3 · 349	20	U4 · 349

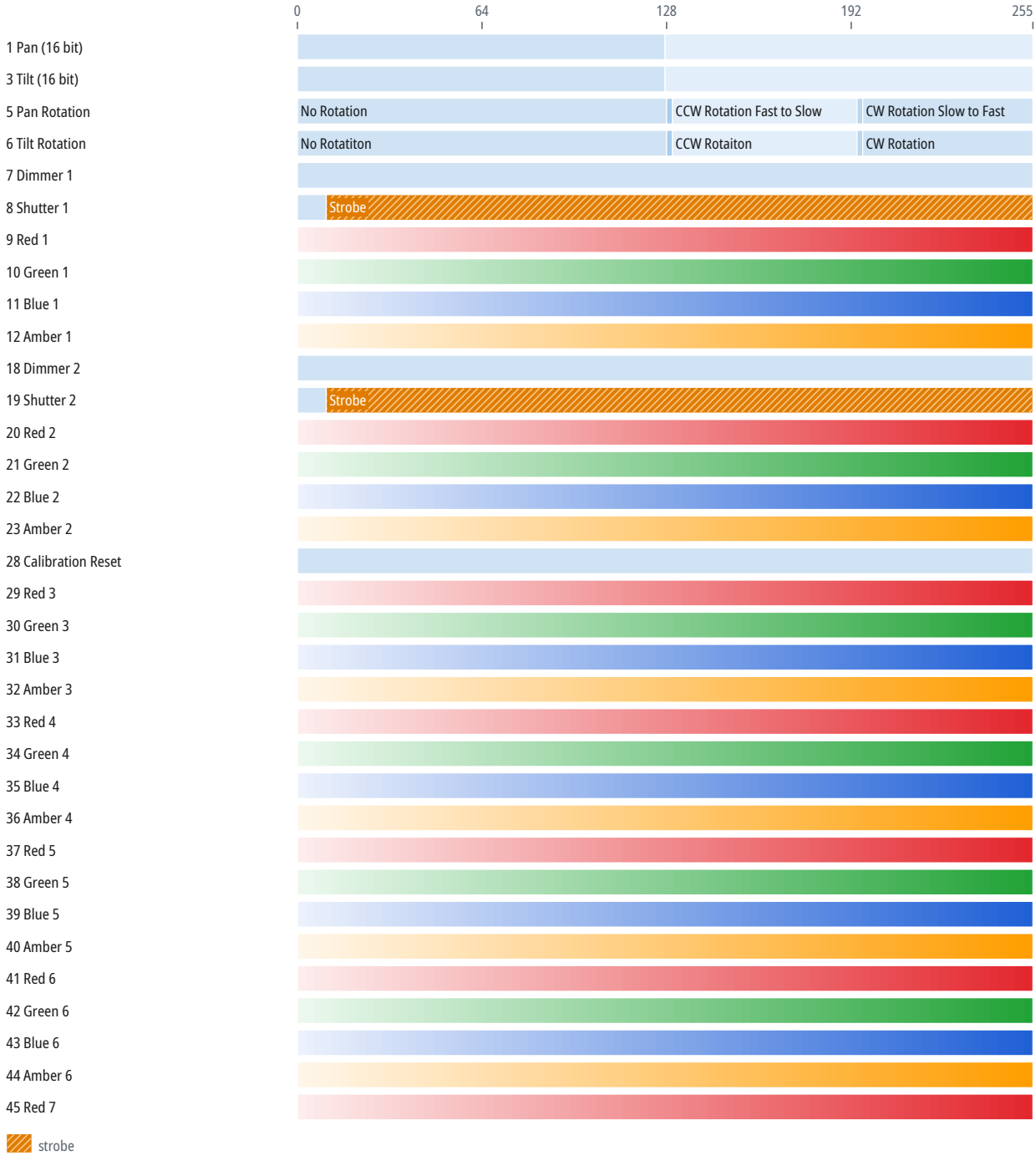
Where a DMX universe is full, the next units continue in the next universe: “U2 · 1” is address 1 in the second universe, counted from the universe of the first unit.

Mode Beam

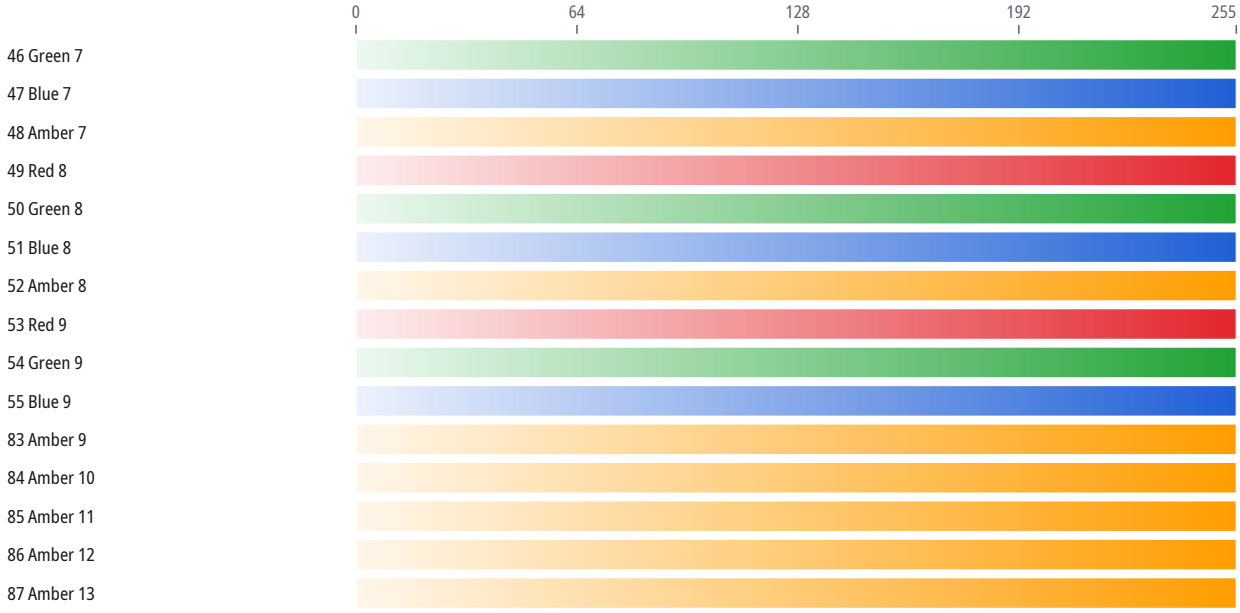
16-bit parameters use two channels, coarse and fine: value = 256 × coarse value + fine value.

If the device receives DMX in this mode but gives no light, check these channels: CH 7 Dimmer 1 above 0; CH 18 Dimmer 2 above 0.

Channel functions at a glance



Channel functions at a glance



CH	Function	DMX	Description
1	Pan	0–127	Pan 1
		128	Center
		128–255	Pan 1
2	Pan Fine	0–255	Fine adjustment of CH 1
3	Tilt	0–127	Tilt 1
		128	Center
		128–255	Tilt 1
4	Tilt Fine	0–255	Fine adjustment of CH 3
5	Pan Rotation	0–127	No Rotation
		128–129	No Rotation ... CCW Rotation Fast to Slow
		130–193	CCW Rotation Fast to Slow (270–0 °/s)
		194–195	CCW Rotation Fast to Slow ... CW Rotation Slow to Fast
		196–255	CW Rotation Slow to Fast (0–270 °/s)
6	Tilt Rotation	0–127	No Rotatiton
		128–129	No Rotatiton ... CCW Rotaiton
		130–193	CCW Rotaiton (270–0 °/s)
		194–195	CCW Rotaiton ... CW Rotation
		196–255	CW Rotation (0–270 °/s)
7	Dimmer 1	0–255	
8	Shutter 1	0–9	Strobe Mode Shutter 1
		10–255	Strobe
9	Red 1	0–255	
10	Green 1	0–255	
11	Blue 1	0–255	
12	Amber 1	0–255	

CH	Function	DMX	Description
18	Dimmer 2	0–255	
19	Shutter 2	0–9	Shutter 1 Strobe 1
		10–255	Strobe
20	Red 2	0–255	
21	Green 2	0–255	
22	Blue 2	0–255	
23	Amber 2	0–255	
28	Calibration Reset	0–255	
29	Red 3	0–255	
30	Green 3	0–255	
31	Blue 3	0–255	
32	Amber 3	0–255	
33	Red 4	0–255	
34	Green 4	0–255	
35	Blue 4	0–255	
36	Amber 4	0–255	
37	Red 5	0–255	
38	Green 5	0–255	
39	Blue 5	0–255	
40	Amber 5	0–255	
41	Red 6	0–255	
42	Green 6	0–255	
43	Blue 6	0–255	
44	Amber 6	0–255	
45	Red 7	0–255	
46	Green 7	0–255	
47	Blue 7	0–255	
48	Amber 7	0–255	
49	Red 8	0–255	
50	Green 8	0–255	
51	Blue 8	0–255	
52	Amber 8	0–255	
53	Red 9	0–255	
54	Green 9	0–255	
55	Blue 9	0–255	
83	Amber 9	0–255	
84	Amber 10	0–255	
85	Amber 11	0–255	
86	Amber 12	0–255	
87	Amber 13	0–255	

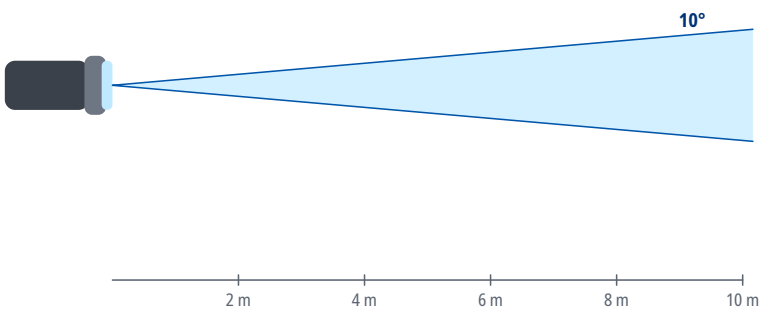
CH 53–82: 10 cells of 3 channels each. Every cell works as cell 1 in the table above (CH 53–55); the table below gives each cell's channel numbers.

Cell	Red	Green	Blue	Cell	Red	Green	Blue	Cell	Red	Green	Blue
1	53	54	55	2	56	57	58	3	59	60	61
4	62	63	64	5	65	66	67	6	68	69	70
7	71	72	73	8	74	75	76	9	77	78	79
10	80	81	82								

10 Technical specifications

Parameter	Value
Pan	540°
Tilt	540°
Operating temperature	0 to 40 °C

Spot diameter



Distance	Ø 10°
2 m	0.35 m
4 m	0.7 m
6 m	1 m
8 m	1.4 m
10 m	1.7 m
15 m	2.6 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.