DMX REFERENCE

MW19x15ZX

LYRE WASH À LED 19 X 15W AVEC ZOOM

Algam



Manufacturer	Algam
GDTF file	Algam_MW19x15ZX_138414.gdtf
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1 About this manual

This document describes the LYRE WASH À LED 19 X 15W AVEC ZOOM by Algam. It was compiled from the GDTF file Algam_MW19x15ZX_138414.gdtf from the GDTF-Share library.

File revision: “ETC OK”.

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 Algam; 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
Weight	8.5 kg

DMX modes

Mode	Channels	Units in one universe	First start addresses
16Ch	16	32	1, 17, 33, 49, ...
24Ch	24	21	1, 25, 49, 73, ...

No light? Check these channels

- 16Ch: CH 5 Dimmer above 0
- 24Ch: CH 5 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.

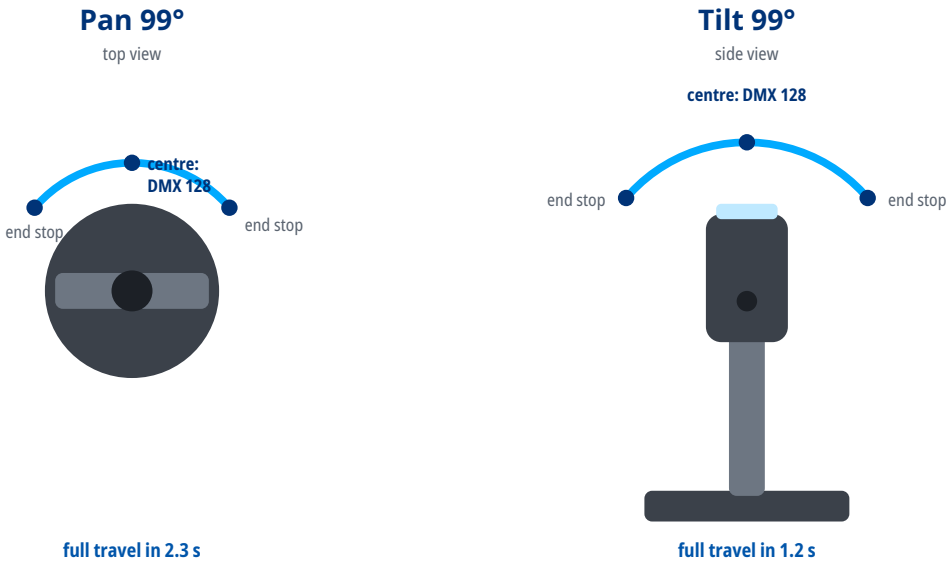
> ⚠ **WARNING**
>
> - The moving parts of the device (for example the head or arms) can move quickly and unexpectedly at any time – after power-on, during a reset, or on a command from the controller.
> - Keep yourself and any objects out of the range of movement. While the device is switched on, do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

Description in the GDTF file

“La lyre MW19X15ZX est un projecteur wash puissant et polyvalent, idéal pour les professionnels. Dotée de 19 LEDs RGBW de 15W chacune, elle offre une luminosité exceptionnelle et une palette de couleurs saturées pour des projections vibrantes et des effets visuels captivants. Parfaite pour les scènes, concerts et événements festifs, elle s'adapte à toutes les applications professionnelles. Son zoom motorisé (6° à 50°) permet d'ajuster précisément les faisceaux lumineux. Grâce à sa motorisation silencieuse, la lyre assure des mouvements fluides avec un panoramique jusqu'à 540° et un tilt jusqu'à 270°, offrant une grande liberté créative pour des mises en scène dynamiques. La MW19X15ZX propose un contrôle flexible via DMX (16 ou 24 canaux), permettant de gérer l'intensité des couleurs par groupe de LEDs, l'orientation, le zoom et les macros intégrées. Un panneau de commande intégré facilite la configuration. Elle fonctionne aussi en modes automatique, musical ou maître/esclave. Conçue pour une utilisation intensive, elle intègre un châssis robuste et une alimentation PowerCon T1 pour une fiabilité optimale. De plus, elle est équipée de deux embases OMEGA pour une installation sécurisée.”

Range of movement



Full-travel times as stated in the GDTF file.

5 Installation

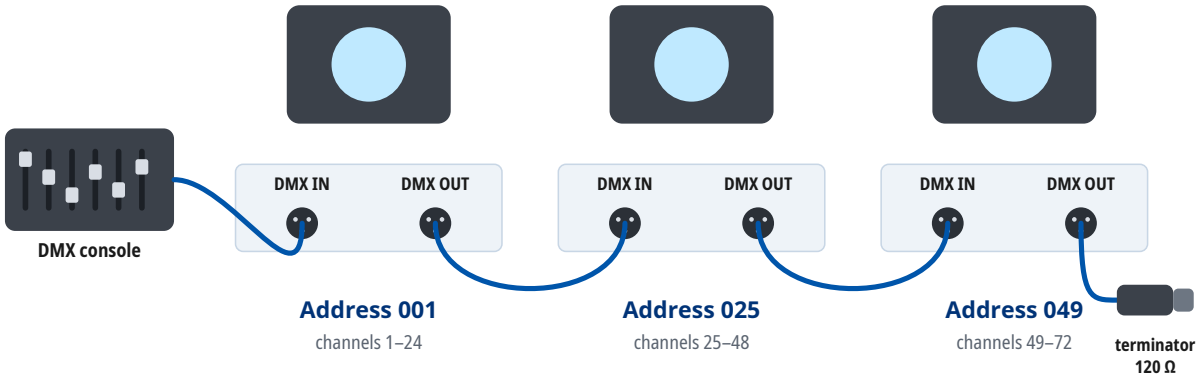
⚠ **WARNING**

- 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.
- Weight of the device: 8.5 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 24Ch: every unit occupies 24 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 “24Ch”: 24.
- 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 “24Ch”, you can use, for example, the start addresses 1, 25, 49, 73.
- 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

	16Ch 16 channels	24Ch 24 channels
Pan / Tilt	1, 3	1, 3
Dimmer	5	5
Shutter / strobe	6	6
Color mixing	9–12	9–20
Zoom	8	8
Effects / macros	7, 13, 14	7, 21, 22
Pixel control		✓

Color wheel

1 Open

2 Red
DMX 2–3

3 Green
DMX 4–5

4 Blue
DMX 6–7

5 White
DMX 8–9

6 Yellow
DMX 10–11

7 Purple
DMX 12–13

8 Light Pink
DMX 14–15

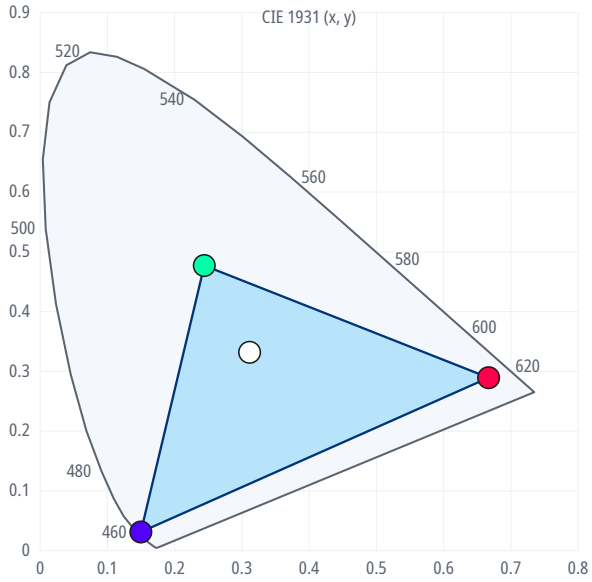
9 Blue
DMX 16–17

10 Cyan
DMX 18–19

11 Cold White
DMX 20–21

12 Cold White (Repeated)
DMX 22–23

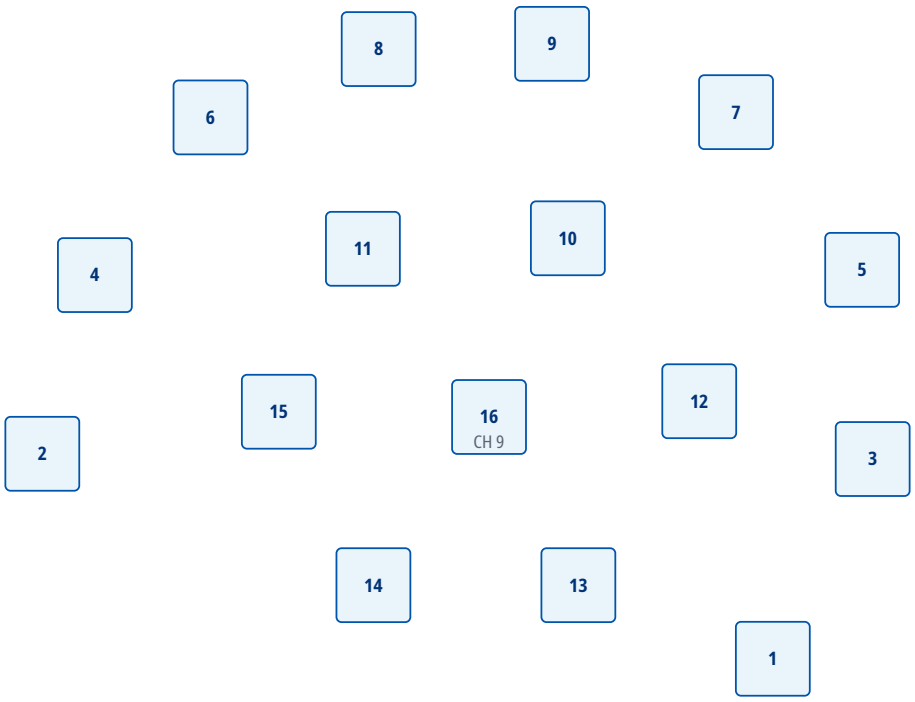
LED colors and the colors they mix



LED	x	y	nm
Red	0.667	0.289	499
Green	0.244	0.477	499
Blue	0.150	0.031	499
White	0.311	0.332	

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

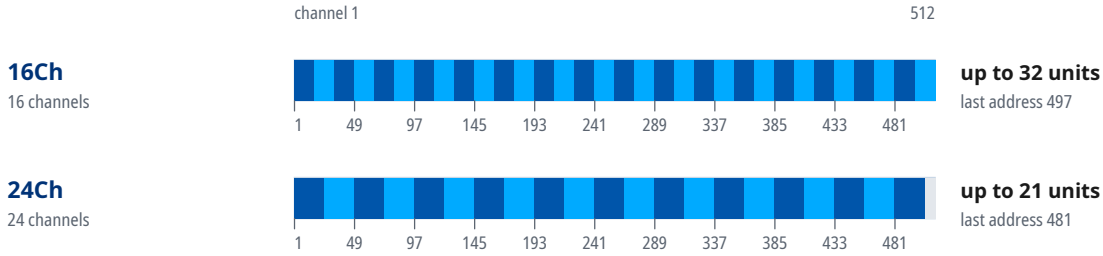
Cells (pixels)



16 cells where the GDTF file places them (seen from above), numbered by their first DMX channel (CH) in the mode “24Ch”.

9 DMX channels

Units in one DMX universe



Start addresses of 20 units in the mode “24Ch”

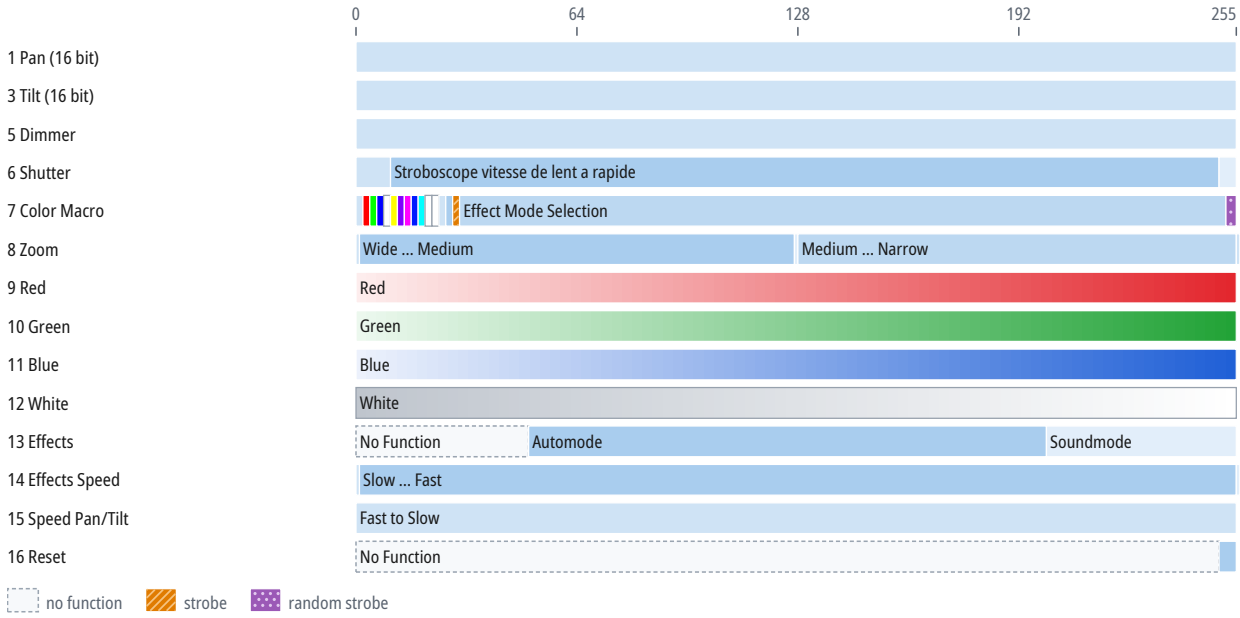
Unit	Start address	Unit	Start address	Unit	Start address	Unit	Start address
1	1	6	121	11	241	16	361
2	25	7	145	12	265	17	385
3	49	8	169	13	289	18	409
4	73	9	193	14	313	19	433
5	97	10	217	15	337	20	457

Mode 16Ch

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 5 Dimmer above 0. The GDTF file gives these values for a console's Highlight function: CH 5 Dimmer 255, CH 7 Color Macro 0, CH 9 Red 255, CH 10 Green 255, CH 11 Blue 255, CH 12 White 255.

Channel functions at a glance



CH	Function	DMX	Description
1	Pan	0–255	99°
2	Pan Fine	0–255	Fine adjustment of CH 1
3	Tilt	0–255	99°
4	Tilt Fine	0–255	Fine adjustment of CH 3
5	Dimmer	0–255	
6	Shutter	0–9	Eteindre le stroboscope
		10–249	Stroboscope vitesse de lent a rapide
		250–255	Eteindre le stroboscope
7	Color Macro	0–1	Open
		2–3	Red
		4–5	Green
		6–7	Blue
		8–9	White
		10–11	Yellow
		12–13	Purple
		14–15	Light Pink
		16–17	Blue
		18–19	Cyan
		20–21	Cold White
		22–23	Cold White (Repeated)
		24–25	LED Jump Mode
		26–27	LED Gradient Mode
		28–29	LED Pulse Mode
		30–251	Effect Mode Selection
		252–255	LED Random Mode
8	Zoom	0	Wide
		1–126	Wide ... Medium
		127	Medium
		128–254	Medium ... Narrow
		255	Narrow
9	Red	0–255	Red
10	Green	0–255	Green
11	Blue	0–255	Blue
12	White	0–255	White
13	Effects		Auto Mode
		0–49	No Function
		50–199	Automode
		200–255	Soundmode
14	Effects Speed		Color Speed
		0	Slow

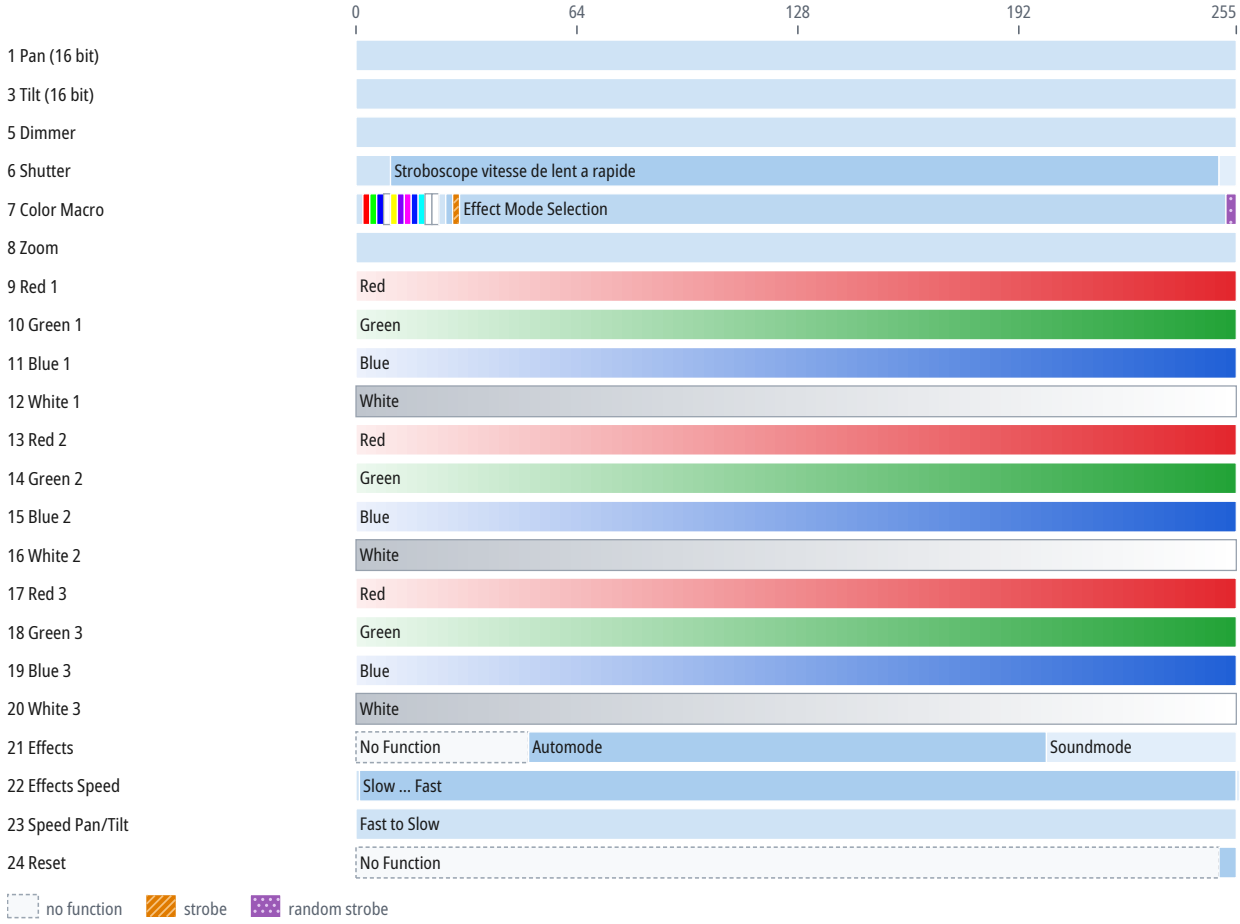
CH	Function	DMX	Description
14	Effects Speed (continued)	1–254	Slow ... Fast
		255	Fast
15	Speed Pan/Tilt	0–255	Fast to Slow
16	Reset	0–249	No Function
		250–255	Reset

Mode 24Ch

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 5 Dimmer above 0. The GDTF file gives these values for a console's Highlight function: CH 5 Dimmer 255, CH 7 Color Macro 0, CH 9 Red 1 255, CH 10 Green 1 255, CH 11 Blue 1 255, CH 12 White 1 255, CH 13 Red 2 255, CH 14 Green 2 255, CH 15 Blue 2 255, CH 16 White 2 255, CH 17 Red 3 255, CH 18 Green 3 255, CH 19 Blue 3 255, CH 20 White 3 255.

Channel functions at a glance



CH	Function	DMX	Description
1	Pan	0–255	99°
2	Pan Fine	0–255	Fine adjustment of CH 1
3	Tilt	0–255	99°
4	Tilt Fine	0–255	Fine adjustment of CH 3

CH	Function	DMX	Description
5	Dimmer	0–255	
6	Shutter		Same as CH 6 in the mode “16Ch” (p. 11)
7	Color Macro		Same as CH 7 in the mode “16Ch” (p. 11)
8	Zoom	0–255	
9	Red 1	0–255	Red
10	Green 1	0–255	Green
11	Blue 1	0–255	Blue
12	White 1	0–255	White
13	Red 2	0–255	Red
14	Green 2	0–255	Green
15	Blue 2	0–255	Blue
16	White 2	0–255	White
17	Red 3	0–255	Red
18	Green 3	0–255	Green
19	Blue 3	0–255	Blue
20	White 3	0–255	White
21	Effects		Same as CH 13 in the mode “16Ch” (p. 11)
22	Effects Speed		Same as CH 14 in the mode “16Ch” (p. 11)
23	Speed Pan/Tilt	0–255	Fast to Slow
24	Reset		Same as CH 16 in the mode “16Ch” (p. 12)

10 Technical specifications

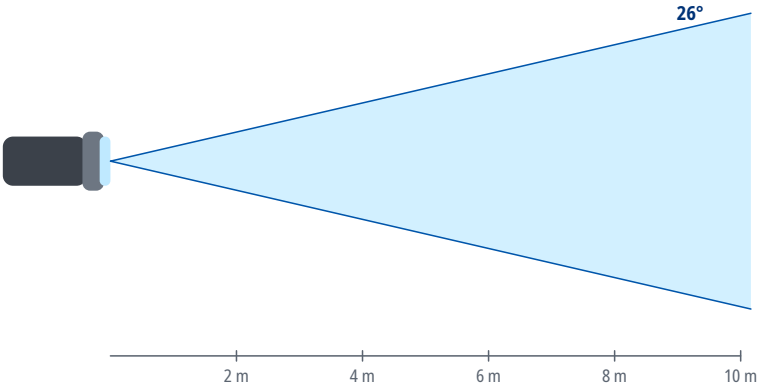
Parameter	Value
Light source	LED
Pan	99°
Tilt	99°
Weight	8.5 kg
Operating temperature	6 to 40 °C

Dimensions

weight 8.5 kg



Spot diameter



Distance	Ø 26°
2 m	0.92 m
4 m	1.8 m
6 m	2.8 m
8 m	3.7 m
10 m	4.6 m
15 m	6.9 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.