fungeneration

Mr. Beam 120 W

moving head

th•mann
MUSIC IS OUR PASSION

user manual

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1 General information

This user manual contains important information on the safe operation of the device. Read and follow all safety notes and all instructions. Save this manual for future reference. Make sure that it is available to all persons using this device. If you sell the device to another user, be sure that they also receive this manual.

Our products and user manuals are subject to a process of continuous development. We therefore reserve the right to make changes without notice. Please refer to the latest version of the user manual which is ready for download under *www.thomann.de*.

1.1 Further information

On our website (*www.thomann.de)* you will find lots of further information and details on the following points:

Download	This manual is also available as PDF file for you to download.
Keyword search	Use the search function in the electronic version to find the topics of interest for you quickly.
Online guides	Our online guides provide detailed information on technical basics and terms.
Personal consultation	For personal consultation please contact our technical hotline.
Service	If you have any problems with the device the customer service will gladly assist you.

1.2 Notational conventions

This manual uses the following notational conventions:

Letterings

The letterings for connectors and controls are marked by square brackets and italics.

Examples: *[VOLUME]* control, *[Mono]* button.

Displays

Texts and values displayed on the device are marked by quotation marks and italics.

Examples: *'24ch'*, *'OFF'*.

Text input

Text inputs that are carried out on the device are indicated by typewriter font.

Example: `2323`

1.3 Symbols and signal words

In this section you will find an overview of the meaning of symbols and signal words that are used in this manual.

Signal word	Meaning
DANGER!	This combination of symbol and signal word indicates an immediate dangerous situation that will result in death or serious injury if it is not avoided.
WARNING!	This combination of symbol and signal word indicates a possible dangerous situation that can result in death or serious injury if it is not avoided.
CAUTION!	This combination of symbol and signal word indicates a possible dangerous situation that can result in minor injury if it is not avoided.
NOTICE!	This combination of symbol and signal word indicates a possible dangerous situation that can result in material and environmental damage if it is not avoided.

Warning signs	Type of danger
	Warning – high-voltage.
	Warning – dangerous optical radiation.
	Warning – suspended load.
	Warning – danger zone.

2 Safety instructions

Intended use

This device is intended for use as a freely moving multifunctional spotlight. The device is designed for professional use and is not suitable for use in households. Use the device only as described in this user manual. Any other use or use under other operating conditions is considered to be improper and may result in personal injury or property damage. No liability will be assumed for damages resulting from improper use.

This device may be used only by persons with sufficient physical, sensorial, and intellectual abilities and having corresponding knowledge and experience. Other persons may use this device only if they are supervised or instructed by a person who is responsible for their safety.

Extend the operating life of the device by regular breaks and by avoiding frequent switching on and off. The device is not suitable for continuous operation.

Safety

DANGER!

Danger for children

Ensure that plastic bags, packaging, etc. are disposed of properly and are not within reach of babies and young children. Choking hazard! Ensure that children do not detach any small parts (e.g. knobs or the like) from the unit. They could swallow the pieces and choke! Never let children unattended use electrical devices.

DANGER!

Electric shock caused by high voltages inside

Within the device there are areas where high voltages may be present. Never remove any covers. There are no user-serviceable parts inside. Do not use the device if covers, protectors or optical components are missing or damaged.

DANGER!

Electric shock caused by short-circuit

Always use proper ready-made insulated mains cabling (power cord) with a protective contact plug. Do not modify the mains cable or the plug. Failure to do so could result in electric shock/death or fire. If in doubt, seek advice from a registered electrician.

WARNING!

Eye damage caused by high light intensity

Never look directly into the light source.

WARNING!

Risk of epileptic shock

Strobe lighting can trigger seizures in photosensitive epilepsy. Sensitive persons should avoid looking at strobe lights.

WARNING!

Risk of injury caused by falling objects

Make sure that the installation complies with the standards and rules that apply in your country. Always secure the device with a secondary safety attachment, such as a safety cable or a safety chain. The load capacity of trusses or other fixtures must be sufficient for the intended number of devices. Not that the movement of the head places additional loads on the load-bearing parts.

CAUTION!

Risk of injury due to movements of the device

The head of the device can move quickly (pan, tilt) and can produce very bright light. This is also valid immediately after you turn on the device, when the device operates in automatic mode or under remote control and when you turn off a DMX controller that is connected to the device. Persons staying near the device could be injured or frightened. Before you turn on the device and during the operation, always ensure that nobody stays close to the device. If work has to be performed in the area of movement or in the near vicinity of the device, it must remain turned off.

NOTICE!

Risk of fire

Do not block areas of ventilation. Do not install the device near any direct heat source. Keep the device away from naked flames.

NOTICE!

Operating conditions

This device has been designed for indoor use only. To prevent damage, never expose the device to any liquid or moisture. Avoid direct sunlight, heavy dirt, and strong vibrations. Only operate the device within the ambient conditions specified in the chapter 'Technical specifications' of this user manual. Avoid heavy temperature fluctuations and do not switch the device on immediately after it was exposed to temperature fluctuations (for example after transport at low outside temperatures). Dust and dirt inside can damage the unit. When operated in harmful ambient conditions (dust, smoke, nicotine, fog, etc.), the unit should be maintained by qualified service personnel at regular intervals to prevent overheating and other malfunction. The device must not be moved during use.

NOTICE!

Power supply

Before connecting the device, ensure that the input voltage (AC outlet) matches the voltage rating of the device and that the AC outlet is protected by a residual current circuit breaker. Failure to do so could result in damage to the device and possibly injure the user. Unplug the device before electrical storms occur and when it is unused for long periods of time to reduce the risk of electric shock or fire.

NOTICE!

Possible damage due to installation of a wrong fuse

The use of different types of fuses can cause serious damage to the unit. Fire hazard! Only fuses of the same type may be used.

NOTICE!

Risk of fire due to incorrect polarity

Incorrectly inserted batteries may destroy the device or the batteries. Ensure that proper polarity is observed when inserting batteries.

NOTICE!

Possible damage by leaking batteries

Leaking batteries can cause permanent damage to the device. Take batteries out of the device if it is not going to be used for a longer period.

NOTICE!

Possible staining

The plasticiser contained in the rubber feet of this product may possibly react with the coating of your surface and after some time cause permanent dark stains. In case of doubt, do not put the rubber feet directly on the surface and use a suitable underlay if necessary, i.e. felt-pad floor protectors or similar.

3 Features

The device is particularly suitable for professional lighting tasks, for example at events, on rock stages, in theatres and musicals, in nightclubs as well as for mobile DJ's and entertainers.

Special features of the device:

- Bar with four individually controllable beam moving heads
- 4 × 30 W RGBW-LED
- Two moving axes
  - Pan (540°)
  - Tilt (230°)
- Very narrow beam angle of only 4°
- 3-facet prism
- Control via DMX (15, 16, 26 or 46 channels), buttons and display on the unit as well as the supplied remote control
- Automatic mode with 4 movement patterns and 14 colour effects
- Sound control
- Electronic dimmer 0 %…100 %
- Shutter frequency 1…20 Hz
- Omega bracket, tripod mount (36 mm) and infrared remote control included

For technological reasons, the light output of LEDs decreases over their lifetime. This effect increases with higher operating temperature. You can extend the service life of the illuminants by providing adequate ventilation and operating the LEDs with the lowest possible brightness.

4 Installation

Unpack and check carefully there is no transportation damage before using the unit. Keep the equipment packaging. To fully protect the product against vibration, dust and moisture during transportation or storage use the original packaging or your own packaging material suitable for transport or storage, respectively.

Lift the device only at the base. When lifted at the rotatable mounting, the device may be damaged.

You can install the device standing or hanging. When in use, the device must be mounted at a solid surface or clamped to an approved truss.

Work from a stable platform whenever you install or move the device or when you perform any kind of maintenance. Block access under the work area.

WARNING!

Risk of injury caused by falling objects

Make sure that the installation complies with the standards and rules that apply in your country. Always secure the device with a secondary safety attachment, such as a safety cable or a safety chain.

The load capacity of trusses or other fixtures must be sufficient for the intended number of devices. Not that the movement of the head places additional loads on the load-bearing parts.

CAUTION!

Risk of injury due to movements of the device

The head of the device can move quickly (pan, tilt) and can produce very bright light. This is also valid immediately after you turn on the device, when the device operates in automatic mode or under remote control and when you turn off a DMX controller that is connected to the device. Persons staying near the device could be injured or frightened.

Before you turn on the device and during the operation, always ensure that nobody stays close to the device. If work has to be performed in the area of movement or in the near vicinity of the device, it must remain turned off.

NOTICE!

Risk of overheating

The distance between light output and the illuminated surface must be more than 1.5 m (19.7in).

Provide sufficient ventilation.

The ambient temperature must always be below 40 °C (104 °F).

NOTICE!

Possible damage caused by movements of the device

Always ensure that enough space is free around the device for the movements of the head (pan, tilt).

NOTICE!

Possible data transmission errors

For error-free operation make use of dedicated DMX cables and do not use ordinary microphone cables.

Never connect the DMX input or output to audio devices such as mixers or amplifiers.

Please note that this device must not be connected to a dimmer.

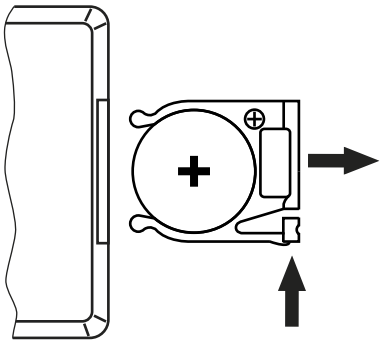
Mounting options

The threads on the housing bottom are used to secure the supplied Omega bracket or truss clamps.

Inserting the battery into the remote control

Press the lock of the battery holder to the centre of the housing and pull out the battery holder like a drawer. Insert the battery. The battery is correct if the positive pole points to the housing base of the remote control. Slide the battery holder back into the remote until it clicks into place.

When shipping, the battery is already installed in the remote and protected against discharge by a transparent plastic foil. Remove the plastic foil prior to first use.

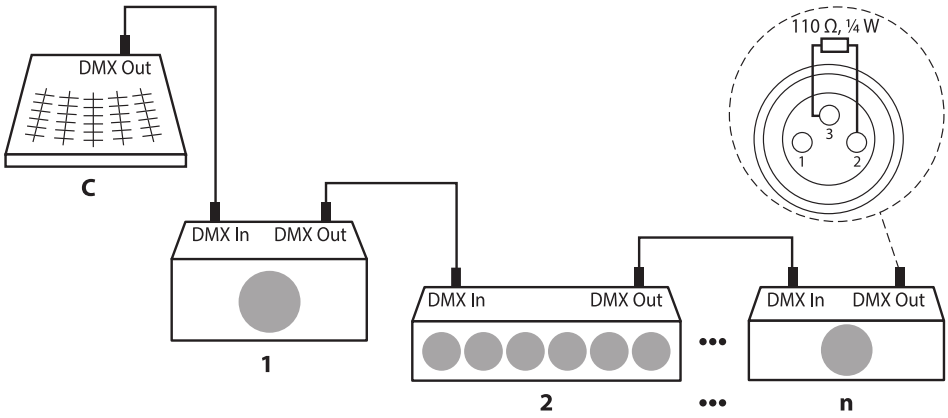


5 Starting up

Create all connections while the device is off. Use the shortest possible high-quality cables for all connections. Take care when running the cables to prevent tripping hazards.

Connections in DMX mode

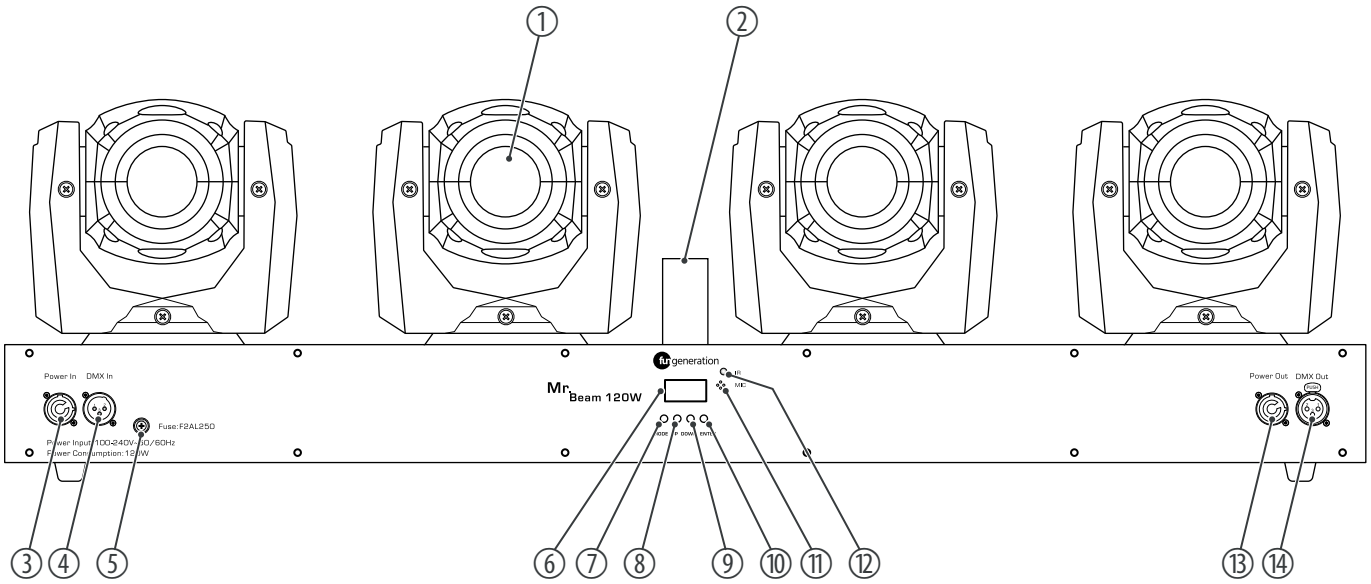
Connect the DMX input of the device to the DMX output of a DMX controller or another DMX device. Connect the output of the first DMX device to the input of the second one, and so on to form a daisy chain. Always ensure that the output of the last DMX device in the daisy chain is terminated with a resistor (110 Ω, ¼ W).



Connections in master/slave mode

When you configure a group of devices in master/slave mode, the first unit will control the other units for an automatic, sound-activated, synchronized show. This function is ideal when you want to start a show immediately. Connect the DMX output of the master device to the DMX input of the first slave device. Then connect the DMX output of the first slave device to the DMX input of the second slave device and so on.

6 Connections and operating elements



1	Light aperture
2	Tripod mount
3	*[Power In]* Lockable input socket (Power Twist) for mains power supply
4	*[DMX In]* DMX input, designed as XLR panel plug, 3-pin
5	Fuse holder
6	Display
7	*[MODE]* Calls up the settings menu, skips one menu level back and closes an opened submenu without saving any changes
8	*[UP]* Increases the displayed value by one and selects menu items.
9	*[DOWN]* Decreases the displayed value by one and selects menu items.
10	*[ENTER]* Calls up the menu for the respective operation mode, confirms a set value.
11	Microphone for sound control
12	Infrared sensor for receiving remote control signals

13	*[Power Out]* Lockable output socket (Power Twist) for powering a connected device
14	*[DMX Out]* DMX output, designed as XLR panel socket, 3-pin

7 Operating

7.1 Starting the device

CAUTION!

Risk of injury due to movements of the device

The head of the device can move quickly (pan, tilt) and can produce very bright light. This is also valid immediately after you turn on the device, when the device operates in automatic mode or under remote control and when you turn off a DMX controller that is connected to the device. Persons staying near the device could be injured or frightened.

Before you turn on the device and during the operation, always ensure that nobody stays close to the device. If work has to be performed in the area of movement or in the near vicinity of the device, it must remain turned off.

Connect the device to the power supply to start operation. After a few seconds, the fans start to work and the head moves to the home positions for rotation (pan) and inclination (tilt).

7.2 Main menu

Press *[UP]* or *[DOWN]* to select the various submenus within a menu level. Press *[ENTER]* to open the submenu shown on the display. Confirm the changed values with *[ENTER]*. To return to the next higher menu level, press *[MODE]*.

The following table shows the setting options.

Main menu	Menu level 2	Menu level 3	Menu level 4	Meaning
'DMX menu'	*'DMX Addr'*	Setting the DMX address		
		'001…512'		
	'Channels Select'	Selecting a DMX mode		
		'15CH '		15-channel DMX mode
		'16CH '		16-channel DMX mode
		'26CH'		26-channel DMX mode
		'46CH'		46-channel DMX mode
	'DMX fail'	Device behaviour on DMX signal failure		
		'Stop '		Stop and take starting position
		'Hold '		Retaining last settings
		'Auto '		Performing an automatic run
		'Sound '		Performing a sound-controlled automatic run
'ShowMode Master'	*'ShowMode Menu'*	Selecting an automatic mode		
		Movement	*'1' … '4'*	Movement pattern 1 to 4
		MoveSped	*'000…255'*	Running speed of the movement pattern
		Color	*'1' … '14'*	Colour effect 1 to 14
		ColoSped	*'000…255'*	Running speed of the colour effect
'Sound Master'				Sound control
'Set Menu'	*'Reload Default'*	Resetting the device to factory defaults		
		'Yes'		Perform
		'No'		Don't perform
	'Reset Machine'	Reset positions and colours to the respectively programmed parameters		
		'Yes'		Perform
		'No'		Don't perform
	'Master'	Master and Stand-alone operation		
		'Yes'		Device works as a master and controls further devices
		'No'		Device works in stand-alone mode
	'MICSense'	Microphone sensitivity for sound control		
		'00' … '99 '		
	'Back Light'	Automatic display shutdown when not in use		
		'ON '		Display remains on
		'OFF '		Display is dimmed after about 25 seconds

Main menu	Menu level 2	Menu level 3	Menu level 4	Meaning	
	'Key Lock'	Key lock 30 seconds after last keystroke			
		'ON'		Switching on When the key lock is activated, press successively *[MODE]*, *[DOWN]*, *[UP]* and *[ENTER]* to unlock the keys.	
		'OFF'		Turning off	
	'Information'	Device information			
		'LED '	*'Date'*	Date of production	
			'Time'	Time of production	
	'UseHours'	Operating hours counter			
		'ThisTime '		Time since last powering on the device in minutes	
		'TotlTime '		Total elapsed operating time in hours	
		'Clear Total '	*'YES'*	Reset previous operating time to zero.	
			'NO'	Use *[UP]* and *[DOWN]* to enter the password to delete the entire elapsed operating time. Upon delivery, the password is *'001'*.	
	'Motor Set'	Behaviour on DMX-controlled motion			
		'Move BlackOut '	ON	LED 'off' on DMX-controlled motion	
			OFF		
		'Motor Calibrate '		Calibration of the motors for rotation, inclination and prism. Use *[UP]* and *[DOWN]* to enter the password for calibration. Upon delivery, the password is *'001'*.	
			'Pan1Motor' … *'Pan4Motor'*	*'Origin'*	Home position pan axis
				'HalfStep'	Half turn pan axis
				'Test'	Test run pan axis
				'Reset'	New calibration pan axis
				'Reverse'	Reverse of the pan axis
			'Tilt1Motor' … *'Tilt4Motor'*	*'Origin'*	Home position tilt axis
				'HalfStep'	Half turn tilt axis
				'Test'	Test run tilt axis
				'Reset'	New calibration tilt axis
				'Reverse'	Reverse of the tilt axis
			'Prism1Motor' … *'Prism4Motor'*	*'Origin'*	Home position prism
				'HalfStep'	Half turn prism

Main menu	Menu level 2	Menu level 3	Menu level 4	Meaning	
				'Test'	Test run prism
				'Reset'	New calibration prism
				'Reverse'	Reverse of the prism
	'Record Scene'	Recording scenes			
		'ShowMode'	*'Yes '*	Recording a running scene.	
			'No '	Not recording a running scene.	
	'RDM'	*'Manufacturer ID'*	*'ID High'*	Highest manufacturer ID	
			'ID Low'	Lowest manufacturer ID	
		'Device ID'	*'ID High'*	Highest device ID	
			'ID Low'	Lowest device ID	
		'RDM Mute'	*'Yes'*	Deactivating RDM	
			'No'	Not deactivating RDM	

7.3 Functions in 15-channel DMX mode

Channel	Value	Function
1	0…255	Master dimmer 0 %…100…%
2	Stroboscope	
	0…9	No function (open)
	10…255	Strobe effect (1 Hz…25 Hz), increasing speed
3	0…255	Rotation (pan) (0° up to the maximum value of the Pan range of 540°)
4	0…255	Inclination (tilt) (0° up to the maximum value of the Tilt range of 230°)
5	0…255	Increasing motor speed
6	0…255	Intensity prism
7	0…255	Colour macro
8	0…255	Intensity red
9	0…255	Intensity green
10	0…255	Intensity blue
11	0…255	Intensity white
12	Movement pattern	
	0…9	No function
	10…69	Movement pattern 1
	70…129	Movement pattern 2
	130…189	Movement pattern 3
	190…255	Movement pattern 4
13	0…255	Increasing running speed movement pattern
14	Colour effect	
	0…9	No function
	10…24	Colour effect 1
	25…39	Colour effect 2
	40…54	Colour effect 3
	55…69	Colour effect 4
	70…84	Colour effect 5
	85…99	Colour effect 6
	100…114	Colour effect 7
	115…129	Colour effect 8
	130…144	Colour effect 9

Channel	Value	Function
	145…159	Colour effect 10
	160…174	Colour effect 11
	175…189	Colour effect 12
	190…204	Colour effect 13
	205…219	Colour effect 14
	220…255	No function
15	0…255	Increasing running speed colour effect

7.4 Functions in 16-channel DMX mode

Channel	Value	Function
1	0…255	Master dimmer 0 %…100…%
2	Stroboscope	
	0…9	No function (open)
	10…255	Strobe effect (1 Hz…25 Hz), increasing speed
3	0…255	Rotation (pan) (0° up to the maximum value of the Pan range of 540°)
4	0…255	Fine adjustment rotation (pan)
5	0…255	Inclination (tilt) (0° up to the maximum value of the Tilt range of 230°)
6	0…255	Fine adjustment inclination (tilt)
7	0…255	Increasing motor speed
8	0…255	Intensity prism
9	0…255	Intensity red
10	0…255	Intensity green
11	0…255	Intensity blue
12	0…255	Intensity white
13	Movement pattern	
	0…9	No function
	10…69	Movement pattern 1
	70…129	Movement pattern 2
	130…189	Movement pattern 3
	190…255	Movement pattern 4
14	0…255	Increasing running speed movement pattern
15	Colour effect	
	0…9	No function
	10…24	Colour effect 1
	25…39	Colour effect 2
	40…54	Colour effect 3
	55…69	Colour effect 4
	70…84	Colour effect 5
	85…99	Colour effect 6
	100…114	Colour effect 7
	115…129	Colour effect 8

Channel	Value	Function
	130…144	Colour effect 9
	145…159	Colour effect 10
	160…174	Colour effect 11
	175…189	Colour effect 12
	190…204	Colour effect 13
	205…219	Colour effect 14
	220…255	No function
16	0…255	Increasing running speed colour effect

7.5 Functions in 26-channel DMX mode

Channel	Value	Function
1	0…255	Master dimmer 0 %…100…%
2	Stroboscope	
	0…9	No function (open)
	10…255	Strobe effect (1 Hz…25 Hz), increasing speed
3	0…255	Rotation (pan) head 1 (0° up to the maximum value of the pan range of 540°)
4	0…255	Inclination (tilt) head 1 (0° up to the maximum value of the tilt range of 230°)
5	0…255	Increasing speed head 1
6	0…255	Prism intensity head 1
7	0…255	Colour macro head 1
8	0…255	Rotation (pan) head 2 (0° up to the maximum value of the pan range of 540°)
9	0…255	Inclination (tilt) head 2 (0° up to the maximum value of the tilt range of 230°)
10	0…255	Increasing speed head 2
11	0…255	Prism intensity head 2
12	0…255	Colour macro head 2
13	0…255	Rotation (pan) head 3 (0° up to the maximum value of the pan range of 540°)
14	0…255	Inclination (tilt) head 3 (0° up to the maximum value of the tilt range of 230°)
15	0…255	Increasing speed head 3
16	0…255	Prism intensity head 3
17	0…255	Colour macro head 3
18	0…255	Rotation (pan) head 4 (0° up to the maximum value of the pan range of 540°)
19	0…255	Inclination (tilt) head 4 (0° up to the maximum value of the tilt range of 230°)
20	0…255	Increasing speed head 4
21	0…255	Prism intensity head 4
22	0…255	Colour macro head 4
23	Movement pattern	
	0…9	No function
	10…69	Movement pattern 1
	70…129	Movement pattern 2
	130…189	Movement pattern 3
	190…255	Movement pattern 4
24	0…255	Increasing running speed movement pattern

Channel	Value	Function
25	Colour effect	
	0…9	No function
	10…24	Colour effect 1
	25…39	Colour effect 2
	40…54	Colour effect 3
	55…69	Colour effect 4
	70…84	Colour effect 5
	85…99	Colour effect 6
	100…114	Colour effect 7
	115…129	Colour effect 8
	130…144	Colour effect 9
	145…159	Colour effect 10
	160…174	Colour effect 11
	175…189	Colour effect 12
	190…204	Colour effect 13
	205…219	Colour effect 14
	220…255	No function
26	0…255	Increasing running speed colour effect

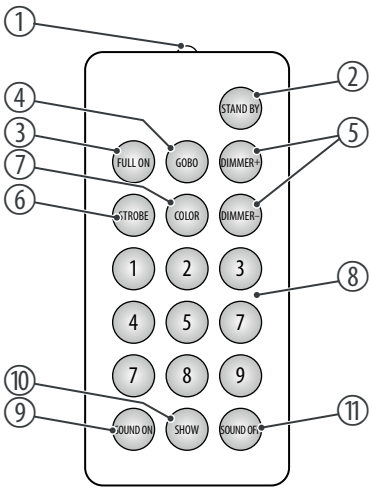
7.6 Functions in 46-channel DMX mode

Channel	Value	Function
1	0…255	Master dimmer 0 %…100…%
2	Stroboscope	
	0…9	No function (open)
	10…255	Strobe effect (1 Hz…25 Hz), increasing speed
3	0…255	Rotation (pan) head 1 (0° up to the maximum value of the pan range of 540°)
4	0…255	Fine adjustment rotation (pan) head 1
5	0…255	Inclination (tilt) head 1 (0° up to the maximum value of the tilt range of 230°)
6	0…255	Fine adjustment inclination (tilt) head 1
7	0…255	Increasing speed head 1
8	0…255	Prism intensity head 1
9	0…255	Intensity red head 1
10	0…255	Intensity green head 1
11	0…255	Intensity blue head 1
12	0…255	Intensity white head 1
13	0…255	Rotation (pan) head 2 (0° up to the maximum value of the pan range of 540°)
14	0…255	Fine adjustment rotation (pan) head 2
15	0…255	Inclination (tilt) head 2 (0° up to the maximum value of the tilt range of 230°)
16	0…255	Fine adjustment inclination (tilt) head 2
17	0…255	Increasing speed head 2
18	0…255	Prism intensity head 2
19	0…255	Intensity red head 2
20	0…255	Intensity green head 2
21	0…255	Intensity blue head 2
22	0…255	Intensity white head 2
23	0…255	Rotation (pan) head 3 (0° up to the maximum value of the pan range of 540°)
24	0…255	Fine adjustment rotation (pan) head 3
25	0…255	Inclination (tilt) head 3 (0° up to the maximum value of the tilt range of 230°)
26	0…255	Fine adjustment inclination (tilt) head 3
27	0…255	Increasing speed head 3
28	0…255	Prism intensity head 3
29	0…255	Intensity red head 3

Channel	Value	Function
30	0…255	Intensity green head 3
31	0…255	Intensity blue head 3
32	0…255	Intensity white head 3
33	0…255	Rotation (pan) head 4 (0° up to the maximum value of the pan range of 540°)
34	0…255	Fine adjustment rotation (pan) head 4
35	0…255	Inclination (tilt) head 4 (0° up to the maximum value of the tilt range of 230°)
36	0…255	Fine adjustment inclination (tilt) head 4
37	0…255	Increasing speed head 4
38	0…255	Prism intensity head 4
39	0…255	Intensity red head 4
40	0…255	Intensity green head 4
41	0…255	Intensity blue head 4
42	0…255	Intensity white head 4
43	Movement pattern	
	0…9	No function
	10…69	Movement pattern 1
	70…129	Movement pattern 2
	130…189	Movement pattern 3
	190…255	Movement pattern 4
44	0…255	Increasing running speed movement pattern
45	Colour effect	
	0…9	No function
	10…24	Colour effect 1
	25…39	Colour effect 2
	40…54	Colour effect 3
	55…69	Colour effect 4
	70…84	Colour effect 5
	85…99	Colour effect 6
	100…114	Colour effect 7
	115…129	Colour effect 8
	130…144	Colour effect 9
	145…159	Colour effect 10

Channel	Value	Function
	160…174	Colour effect 11
	175…189	Colour effect 12
	190…204	Colour effect 13
	205…219	Colour effect 14
	220…255	No function
46	0…255	Increasing running speed colour effect

8 Remote control



To use the remote control, point its infrared diode at the infrared sensor on the unit and press the desired buttons. The maximum operating distance is about 9 m. The device will only respond to the remote control signals if it is not controlled via DMX.

To activate remote control operation, press *[STAND BY]* on the remote control and then *[FULL ON]*.

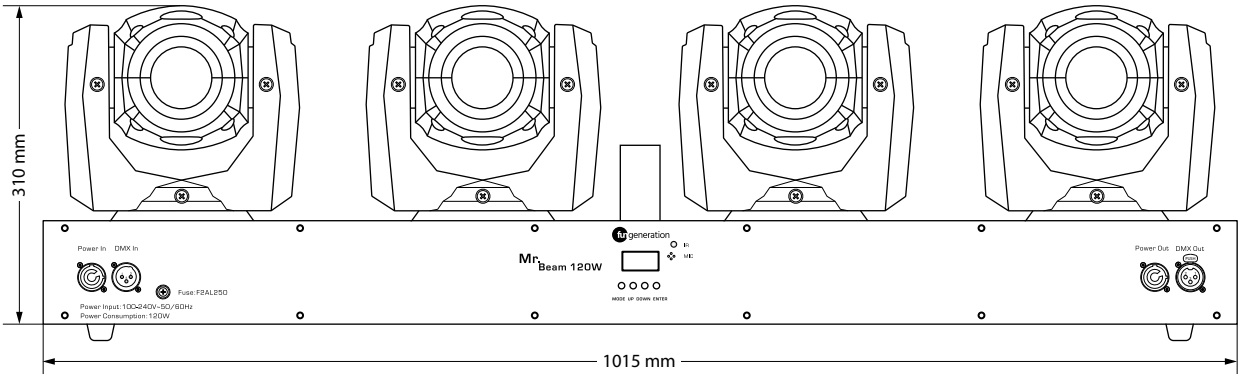
The settings you make using the remote control affect all four moving heads.

1	Infrared diode Sends the infrared signals to the device.
2	*[STAND BY]* Stops the automatic mode and blackouts the unit. The display shows ‘*StoP*’ to adapt the values). In this mode, the device responds to the remote control.
3	*[FULL ON]* Press this button to call up the programmed light scene.
4	*[GOBO]* No function
5	*[Dimmer + / –]* Adjusts the light intensity between 0 and 100 %. Press repeatedly *[Dimmer +]* or keep the button pressed to increase the light intensity. Press repeatedly *[Dimmer–]* or keep the button pressed to decrease the light intensity.
6	*[STROBE]* Enables the Strobe function for the current light scene. Then press one of the number buttons *[2] - [9]* for the desired strobe frequency. Press the number button *[1]* to disable the strobe function.
7	*[COLOR]* To call up various colours for the current light scene. Then press one of the number buttons *[1] - [8]* for the desired colour.
8	Number buttons These buttons allow you to trim the rotation (X) and tilt (Y) of the device head:

[1]: X– & Y+	*[4]*: X–	*[7]*: X– & Y–
[2]: Y+	*[5]*: Centre	*[8]*: Y–
[3]: X+ & Y+	*[6]*: X+	*[9]*: X+ & Y–

9	*[SOUND ON]* Activates the sound-control.
10	*[SHOW]* Calls up one of the preprogrammed automatic shows. Then press one of the number buttons *[1]* - *[9]* for the desired show. To cancel a show, press *[STAND BY]*.
11	*[SOUND OFF]* Deactivates the sound-control.

9 Technical specifications



Light source	4 × 30 W RGBW LED	
Optical properties	Beam angle	4°
Control	DMX	
	Buttons and display on the unit	
	Infrared remote control	
Rotation angle (pan), max.	540°	
Inclination angle (tilt), max.	230°	
Number of DMX channels	15, 16, 26 or 46	
Control protocol	DMX512	
Input connections	Voltage supply	Lockable input socket (Power Twist)
	DMX control	XLR chassis plug, 3-pin
Output connections	Voltage supply	lockable output socket (Power Twist)
	DMX control	XLR chassis socket, 3-pin
Power consumption	180 W	
Operating supply voltage	100 - 240 V ~ 50/60 Hz	
Fuse	5 mm × 20 mm, 2 A, 250 V, fast-acting	
Protection class	IP20	
Mounting options	standing, hanging	
Dimensions (W × H × D)	1015 mm × 310 mm × 85 mm	
Weight	11.8 kg	
Ambient conditions	Temperature range	0 °C…40 °C
	Relative humidity	20 %…80 % (non-condensing)

Further information

Illuminant type	LED
Colour mixture	RGBW
Gobo wheel	No
Prism	yes
Motorized focus	No
Motorized zoom	No

10 Plug and connection assignments

Introduction

This chapter will help you select the right cables and plugs to connect your valuable equipment so that a perfect light experience is guaranteed.

Please take our tips, because especially in 'Sound & Light' caution is indicated: Even if a plug fits into a socket, the result of an incorrect connection may be a destroyed DMX controller, a short circuit or 'just' a not working light show!

DMX connections

The unit offers a 3-pin XLR socket for DMX output and a 3-pin XLR plug for DMX input. Please refer to the drawing and table below for the pin assignment of a suitable XLR plug.

Pin	Configuration
1	Ground, shielding
2	Signal inverted (DMX–, 'cold signal')
3	Signal (DMX+, 'hot signal')

11 Troubleshooting

NOTICE!

Possible data transmission errors

For error-free operation make use of dedicated DMX cables and do not use ordinary microphone cables.

Never connect the DMX input or output to audio devices such as mixers or amplifiers.

In the following we list a few common problems that may occur during operation. We give you some suggestions for easy troubleshooting:

Symptom	Remedy
The unit does not work, no light, the fan does not run	Check the mains connection and the main fuse.
No response to the DMX controller	1. Check the DMX connectors and cables for proper connection.
	2. Check the address settings and the DMX polarity.
	3. Try using another DMX controller.
	4. Check to see if the DMX cables run near or alongside to high voltage cables that may cause damage or interference to DMX interface circuits.

If the procedures recommended above do not succeed, please contact our Service Center. You can find the contact information at *www.thomann.de*.

12 Cleaning

Optical lenses

Clean the optical lenses, that are accessible from the outside, regularly in order to optimize the light output. The frequency of cleaning depends on the operating environment: wet, smoky or particularly dirty surroundings can cause more accumulation of dirt on the optics of the device.

- Clean with a soft cloth using our lamp and lens cleaner (item no. 280122).
- Always dry the parts carefully.

Fan grids

The fan grids of the device must be cleaned of any contamination, such as dust, etc. on a regular basis. Before cleaning, switch off the device and disconnect mains-operated devices from the mains. Only use pH-neutral, solvent-free and non-abrasive cleaning agents. Clean the unit with a slightly damp lint-free cloth.

13 Protecting the environment

Disposal of the packaging material

For the packaging, environmentally friendly materials have been chosen that can be supplied to normal recycling.

Ensure that plastic bags, packaging, etc. are properly disposed of.

Do not just dispose of these materials with your normal household waste, but make sure that they are collected for recycling. Please follow the notes and markings on the packaging.

Disposal of batteries

Batteries must not be thrown away or incinerated; they must be disposed of in accordance with local regulations for the disposal of hazardous waste. Use the existing collection points for this.

Only dispose of lithium batteries when they are discharged. Remove replaceable lithium batteries from the device before disposal. Protect used lithium batteries against short circuits, for example by covering the poles with adhesive tape. Permanently built-in lithium batteries must be disposed of together with the device. Please inquire about an appropriate collection point.

Disposal of your old device

This product is subject to the European Waste Electrical and Electronic Equipment Directive (WEEE) in its currently valid version. Do not dispose with your normal household waste.

Dispose of this device through an approved waste disposal firm or through your local waste facility. When discarding the device, comply with the rules and regulations that apply in your country. If in doubt, consult your local waste disposal facility.

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