

Hero Spot 60, Hero Spot 60 WH

Moving Head

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10.10.2022, ID: 449221, 481679 (V5) Firmware V1.1

# **Table of contents**

1	General information	
	1.1 Further information	7
	1.2 Notational conventions	7
	1.3 Symbols and signal words	8
2	Safety instructions	11
3	Features	15
4	Installation	16
5	Starting up	21
6	Connections and controls	23
7	Operating	28
	7.1 Starting the device	28
	7.2 Main menu	29
	7.3 Functions in 8-channel DMX mode	39
	7.4 Functions in 14-channel DMX mode	42
	7.5 Gobos	47
8	Technical specifications	48
9	Plug and connection assignments	51
10	Troubleshooting	52

# Table of contents

1	Cleaning	54
2	Protecting the environment	55





# 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 <u>www.thomann.de</u>.

# 1.1 Further information

On our website (<u>www.thomann.de</u>) 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'.

**Cross-references** References to other locations in this manual are identified by an arrow and the specified page

number. In the electronic version of the manual, you can click the cross-reference to jump to

the specified location.

Example: See & 'Cross-references' on page 8.

# 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
A	Warning – high-voltage.
<u>*</u>	Warning – dangerous optical radiation.

Warning signs	Type of danger
	Warning – suspended load.
<u>^</u>	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 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 pads or similar.

#### 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 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.

# 3 Features

Special features of the device:

- Two movable axles with 16 bit resolution:
  - Tilt (190°)
  - Pan (540°)
- Control via DMX (8 or 14 channels), via buttons and display on the unit or via IR remote control (item no. 470387, optional)
- Preprogrammed automatic show programmes
- Sound control
- Master / Slave mode
- Colour wheel with white, 7 full-colours, and rainbow effect
- 3-facet prism
- Gobo wheel with 5 rotatable gobos
- Gobo-flow and gobo-shake function
- Flectronic dimmer

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!

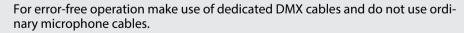
# Possible damage caused by movements of the device

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



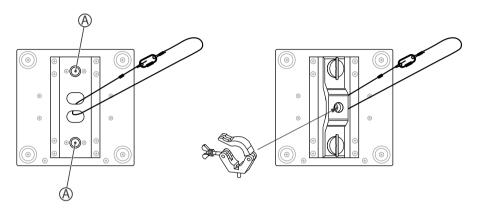
#### **NOTICE!**

#### Possible data transmission errors



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

# **Mounting options**

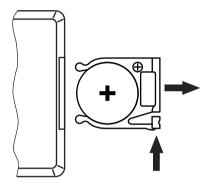


The threads on the bottom side of the housing (A) allow the secure attachment of the included mounting bracket. There, you can fasten adapters such as half couplers, trigger clamps, chooks etc. The safety cable is threaded through the cut-outs on the bottom of the housing.



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

# 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.

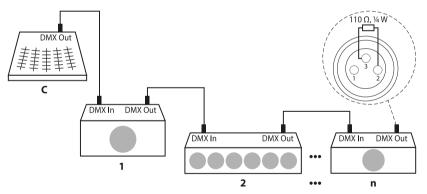
When shipping, the battery is already installed in the remote and protected against discharge by a transparent plastic foil. Remove the plastic foil prior to first use.

# 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  $\Omega$ ,  $\frac{1}{4}$  W).



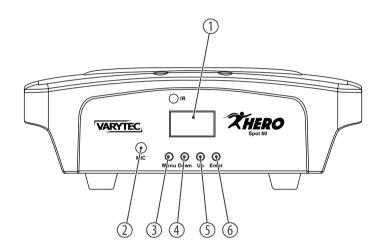
#### **DMX** indicator

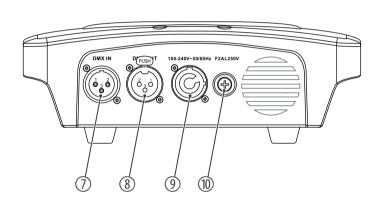
When the device and the DMX controller are operational, the DMX indicator in the display shows that a DMX signal is being received on the input.

# 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 controls

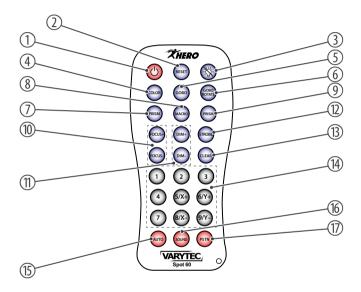




# Connections and controls

1	Display
2	Built-in microphone for sound control
3	[MENU]
	Activates the main and the settings menu and toggles between menu items. Closes an open submenu without saving any changes.
4	[DOWN]
	Decreases the displayed value by one.
5	[UP]
	Increases the displayed value by one.
6	[ENTER]
	Selects an option of the respective operating mode, confirms the set value.
7	[DMX IN]
	DMX input
8	[DMX OUT]
	DMX output
9	Lockable input socket (Power Twist) for mains power supply
10	Fuse holder

## **Remote control**



	Button	Function
1	Q	Turns the remote control on and off.
2	[RESET]	Performs a device reset (duration approx. 45 s).
3	*	Switches LEDs in the manual colour mixing mode on or off.
4	[COLOR]	
	Colour macros	1. Yellow
		2. Green
		3. Magenta
		4. Colour change slowly
		5. Colour change quickly, left
		6. Colour change quickly, right
5	[GOBO]	Gobo selection
6	[GOBO ROTATE]	Adjusts the gobo wheel rotation.
7	[PRISM]	Turns the prism on and off.
8	[MACRO]	Sets the colour and gobo macro combinations.
9	[PRISM]	No function
10	[FOCUS+] / [FOCUS-]	Adjusts the focus.

	Button	Function
11	[DIM+] / [DIM-]	Dims the overall intensity.
12	[STROBE]	Adjusts the strobe effect in eight steps.
13	[CLEAR]	Switches off all set functions.
14	Numeric keypad	
	[1] [2] [3] [4] [5/X+] [6/Y+] [7] [8/X-] [9/Y-]	When [AUTO] is activated:
		Selects the automatic programmes [1] [9].
	[5/X+] [6/Y+] [8/X-] [9/Y-]	When [PSTN] is activated:
		Manually sets the static position.
15	[AUTO]	Activates the selection of automatic programmes.
16	[SOUND]	Activates the sound-control.
17	[PSTN]	Activates the manual static position adjustment.

# 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, the head moves to the home positions for rotation (pan) and inclination (tilt). After a few more seconds, the display shows '001'. The device is now ready for operation.

## 7.2 Main menu

Press [ENTER] to activate the main menu.

Use [UP] and [DOWN] to change the respectively displayed value. When the display shows the desired value press [ENTER].

To exit the menu item without making changes, press [MENU].

If you don't press any button for about 30 seconds the display turns off. A short press on [MENU], [ENTER], [UP] or [DOWN] will then turn it back on.

All previous settings are retained even when you switch the device off and disconnect it from the mains.

#### **DMX address**

Use the 'DMX Address' menu to set the DMX address.

Press [ENTER] to activate the main menu and use [UP] or [DOWN] until the display shows 'DMX Address'. Confirm the value with [ENTER] and use [UP] or [DOWN] to select a value between 1 and 512 for setting the desired DMX address.

When the display shows the desired value, confirm the selection with [ENTER]. To exit the menu item without making changes, press [MENU].

Make sure that this number matches the configuration of your DMX controller.

#### DMX mode

Use the 'DMX Channel' menu to set the DMX mode.

Press [ENTER] to activate the main menu and use [UP] or [DOWN] until the display shows 'DMX Channel'. Confirm the value with [ENTER] and use [UP] or [DOWN] to select one of the two DMX modes (8-channel mode or 14-channel mode, display shows 'DMX 8 Ch' or 'DMX 14 Ch').

When the display shows the desired value, confirm the selection with [ENTER]. To exit the menu item without making changes, press [MENU].

# **Operating mode**

Use the 'Running Mode' menu to set the operating mode.

Press [ENTER] to activate the main menu and use [UP] or [DOWN] until the display shows 'Running Mode'. Confirm the value with [ENTER] and use [UP] or [DOWN] to select one of the four operating modes ('DMX', 'Auto', 'Sound', 'Slave').

Operating mode	Function
'DMX'	DMX control
	In this mode the device is controlled via a DMX controller.
'Auto'	Auto programmes
	In this mode, the unit plays the preprogrammed shows.
'Sound'	Sound control
	In this mode, the unit follows the rhythm of the background music or sounds detected by the built-in microphone.
'Slave'	Slave function
	In this mode, the device follows exactly the operation of the master that it is connected to.

When the display shows the desired value, confirm the selection with [ENTER]. To exit the menu item without making changes, press [MENU].

## **Auto programmes**

Use the 'Programs' menu to select one of the preprogrammed shows.

Press [ENTER] to activate the main menu and use [UP] or [DOWN] until the display shows 'Programs'. Confirm the value with [ENTER] and use [UP] or [DOWN] to select one of the eight preprogrammed shows (display shows 'Program1' ... 'Program8').

When the display shows the desired value, confirm the selection with [ENTER]. The device plays the selected show as an endless loop. To exit the menu item without making changes, press [MENU].

# Settings

Use the 'Settings' menu to adjust the device parameters.

Press [ENTER] to activate the main menu and use [UP] or [DOWN] until the display shows 'Settings'. Confirm the value with [ENTER] and use [UP] or [DOWN] to select the desired parameter.

Parameter	Function
'Pan Rev'	Pan inversion
	Use [UP] or [DOWN] to select the option 'YES' (reverse rotation) or 'NO' (normal rotation).
'Tilt Rev'	Tilt inversion
	Use [UP] or [DOWN] to select the option 'YES' (reverse direction of inclination) or 'NO' (normal direction of inclination).
'Pan Limit'	Starting point of the rotation angle
	Use [UP] or [DOWN] to select the option 'Starting Point'. Confirm with [ENTER].
	Use [UP] or [DOWN] to select a value from 0 to 539.
	Ending point of the rotation angle
	Use [UP] or [DOWN] to select the option 'Ending Point'. Confirm with [ENTER].
	Use [UP] or [DOWN] to select a value from 1 to 540.

Parameter	Function
'Tilt Limit'	Starting point of the inclination angle
	Use [UP] or [DOWN] to select the option 'Starting Point'. Confirm with [ENTER].
	Use [UP] or [DOWN] to select a value from 0 to 189.
	Ending point of the inclination angle
	Use [UP] or [DOWN] to select the option 'Ending Point'. Confirm with [ENTER].
	Use [UP] or [DOWN] to select a value from 1 to 190.
'Display Rev'	Display reversal
	Use [UP] or [DOWN] to select the option 'YES' (text in the display appears upside down) or 'NO' (text in the display appears normal).
'Sensitivity'	Microphone sensitivity
	Use [UP] or [DOWN] to select a value from 0 (sound control off) to 100 (microphone sensitivity high).
'Dmx Fail'	Behaviour on DMX control failure
	Use [UP] or [DOWN] to select the option 'OFF' (blackout in case of DMX failure) or 'HOLD' (last DMX signal is being held).

Parameter	Function
'Calibration'	Calibrating
	Detailed information about this menu item can be found under <i>Calibrating' on page 36.</i>
'Factory Reset'	Reset to factory defaults
	Use [UP] or [DOWN] to select the option 'YES' (factory reset) or 'NO' (no factory reset).
'Reset Motor'	Resetting the motor

When the display shows the desired value, confirm the selection with [ENTER]. To exit the menu item without making changes, press [MENU].

# **Calibrating**

Use the 'Calibration' menu to adjust the start parameters of the device.

Press [ENTER] to activate the main menu and use [UP] or [DOWN] until the display shows 'Settings'. Confirm the value with [ENTER] and use [UP] or [DOWN] to select the submenu 'Calibration'.

Confirm the value with [ENTER]. The device prompts you to enter a password. Press [UP] or [DOWN] repeatedly until the display shows '018' and confirm the selection with [ENTER].

Use [UP] or [DOWN] to select the desired parameter to set.

Parameter	Function
'All To Origin'	Resets all parameters of the calibration to factory settings.
'Pan'	Sets the home position of the rotation.
Tilt'	Sets the home position of the inclination movement.
'Spot Color'	Sets the initial colour of the spot.
'Gobo'	Sets the first gobo.
'Focus'	Sets the default setting of the light bundling.
'Prism'	Adjusts the prism.

When the display shows the desired parameter, confirm the selection with [ENTER]. Use [UP] or [DOWN] to select the desired value for the selected parameter (0 ... 120) and confirm the selection with [ENTER]. To exit the menu item without making changes, press [MENU].

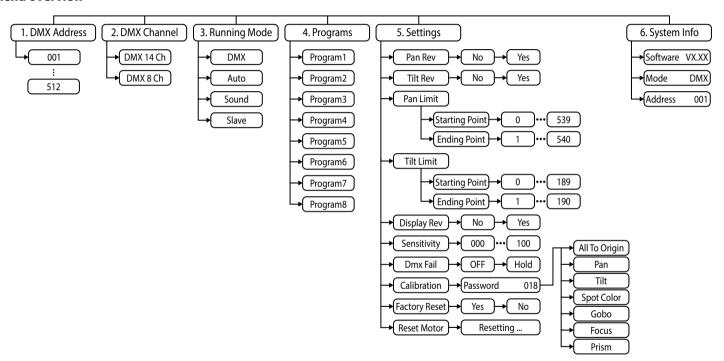
### **System information**

Use the 'System Info' menu to call up information about the system.

Press [ENTER] to activate the main menu and use [UP] or [DOWN] until the display shows 'System Info'. Confirm the value with [ENTER].

The display shows the current software version, the current operating mode and the DMX start address.

#### Menu overview



### 7.3 Functions in 8-channel DMX mode

Channel	Value	Function	
1	0255	Rotation (pan) (0° up to the maximum value of the Pan area. middle position: 128)	
2	0255	Inclination (tilt) (0° up to the maximum value of the Tilt area. middle position: 128)	
3	0255	Speed of pan and tilt movement, fast (0) to slow (255)	
4	0255	Dimmer intensity from dark (0) to bright (255)	
5	Shutter		
	09	Open	
	10250	Stroboscope effect, increasing speed	
	251255	Open	
6	0255	5 Focus	
7	Colour, gobo and prism programs (with open dimmer)		
	010	No function	
	1120	White, open	
	2130	Blue, gobo 1	
	3140	Purple, gobo 2	

## Operating

Channel	Value	Function	
	4150	Orange, gobo 3	
	5160	White, gobo 4	
	6170	White, gobo 5	
	7180	White, open, prism	
	8190	Blue, gobo 1, medium rotation speed, prism	
	91100	Purple, gobo 2, medium rotation speed, prism	
	101110	Orange, gobo 3, medium rotation speed, prism	
	111120	White, gobo 4, medium rotation speed, prism	
	121130	White, gobo 5, medium rotation speed, prism	
	131140	Automatic colour sequence, prism, gobo 1	
	141150	Automatic colour sequence, prism, gobo 2	
	151160	Automatic colour sequence, prism, gobo 3	
	161170	Automatic colour sequence, prism, gobo 4	
	171180	Automatic colour sequence, prism, gobo 5, prism	
	181255	Colour, gobo, sound-controlled prism	
8	010	No function	

Channel	Value	Function
	1120	Preprogrammed automatic show 1
	2130	Preprogrammed automatic show 2
	3140	Preprogrammed automatic show 3
	4150	Preprogrammed automatic show 4
	5160	Preprogrammed automatic show 5
	6170	Preprogrammed automatic show 6
	7180	Preprogrammed automatic show 7
	8190	preprogrammed automatic show 8
	91230	Sound control, from sound control off to high microphone sensitivity
	231240	Reset, if the value is transmitted for at least 3 seconds
	241255	No function

### 7.4 Functions in 14-channel DMX mode

Channel	Value	Function	
1	0255	Rotation (pan) (0° up to the maximum value of the Pan area. middle position: 128)	
2	0255	Fine adjustment rotation (pan) 16 bit	
3	0255	Inclination (tilt) (0 $^{\circ}$ up to the maximum value of the Tilt area. middle position: 128)	
4	0255	Fine adjustment inclination (pan) 16 bit	
5	0255	Speed of rotation (pan) and inclination (tilt), fast (0) to slow (255)	
6	0255	Dimmer intensity from dark (0) to bright (255)	
7	Shutter (with open dimmer)		
	09	Open	
	10250	Stroboscope effect, increasing speed	
	251255	Open	
8 Colour wheel			
	024	White (open)	
	2550	Red	
	5175	Yellow	

Channel	Value	Function
	76100	Bright blue
	101125	Green
	126150	Amber
	151175	Purple
	176200	Blue
	201255	Rainbow effect, increasing speed
9	Gobo wheel	
	09	Open
	1026	Gobo 1
	2743	Gobo 2
	4460	Gobo 3
	6177	Gobo 4
	7894	Gobo 5
	95114	Gobo 1 shake, increasing speed
	115134	Gobo 2 shake, increasing speed
	135154	Gobo 3 shake, increasing speed

## Operating

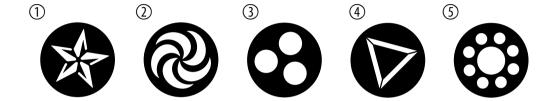
Channel	Value Function		
	155174	Gobo 4 shake, increasing speed	
	175194	Gobo 5 shake, increasing speed	
	195224	Clockwise gobo pass, from fast to slow	
	225255	Counterclockwise gobo pass, from slow to fast	
10	Gobo rotation		
	09	Stop	
	10129	Clockwise gobo rotation, from fast to slow	
	130134	Stop	
	135255	Counterclockwise gobo rotation, from slow to fast	
11	0255	Focus	
12	3-facet prism		
	0128	Prism off	
	0255	Prism on	
13	Colour, gobo and prism programs (with open dimmer)		
	010	No function	
	1120	White, open	

Channel	Value	Function
	2130	Blue, gobo 1
	3140	Purple, gobo 2
	4150	Orange, gobo 3
	5160	White, gobo 4
	6170	White, gobo 5
	7180	White, open, prism
	8190	Blue, gobo 1, medium rotation speed, prism
	91100	Purple, gobo 2, medium rotation speed, prism
	101110	Orange, gobo 3, medium rotation speed, prism
	111120	White, gobo 4, medium rotation speed, prism
	121130	White, gobo 5, medium rotation speed, prism
	131140	Automatic colour sequence, prism, gobo 1
	141150	Automatic colour sequence, prism, gobo 2
	151160	Automatic colour sequence, prism, gobo 3
	161170	Automatic colour sequence, prism, gobo 4
	171180	Automatic colour sequence, prism, gobo 5, prism

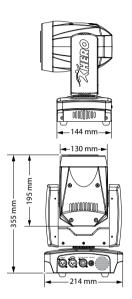
## Operating

Channel	Value	Function
	181255	Colour, gobo, sound-controlled prism
14	010	No function
	1120	Preprogrammed automatic show 1
	2130	Preprogrammed automatic show 2
	3140	Preprogrammed automatic show 3
	4150	Preprogrammed automatic show 4
	5160	Preprogrammed automatic show 5
	6170	Preprogrammed automatic show 6
	7180	Preprogrammed automatic show 7
	8190	Preprogrammed automatic show 8
	91230	Sound control, from sound control off to high microphone sensitivity
	231240	Reset, if the value is transmitted for at least 3 seconds
	241255	No function

### 7.5 Gobos



# 8 Technical specifications



Light source		1 × LED, 60 W
		Light output: 44600 Lux (1 m)
		Colour temperature: 8000 K
Optical properties	Beam angle	10°
Rotation angle (pan), m	nax.	540°
Inclination angle (tilt),	max.	190°
Control protocols		DMX512
Number of DMX channels		8, 14
Power consumption		100 W
Input connections	Power supply	Lockable input socket (Power twist)
	DMX control	XLR chassis plug, 3-pin
Output connections DMX control		XLR chassis socket, 3-pin
Supply voltage		100 - 240 V ∼ 50/60 Hz
Fuse		5 mm $\times$ 20 mm, 2 A, 250 V, fastacting

Degree of protection		IP20
Battery remote control		Lithium button cell CR 2025, 3 V
Dimensions (W $\times$ H $\times$ D	))	214 mm × 355 mm × 144 mm
Weight		4.6 kg
Device colour	Item no. 449221	Black
	Item no. 481679	White
Ambient conditions	Temperature range	0 °C40 °C
	Relative humidity	20 %80 % (non-condensing)

### **Further information**

Type	Spot
Colour mixture	Colour wheel
Motorized zoom	No
Motorized focus	Yes
Rotating gobos	Yes
Static gobos	Yes
Number of colour wheels	1
Iris	No
Prism	Yes

# 9 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')

# 10 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 power connection and the main fuse.
No response to the DMX controller	1. The DMX indicator should light up. If it doesn't, check DMX connectors and cables for proper connection.
	2. If the DMX indicator lights up but with no response, check the address settings and DMX polarity.
	3. Try using another DMX controller.
	4. Check whether the DMX cables lie near or adjacent to high voltage cables, which could cause damage or interference with a DMX interface circuit.

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

# 11 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.

# 12 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.