

Hero Spot Wash 80 2in1 RGBW+W

User manua

moving head

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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 <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.	

Letterings

Displays

1.2 Notational conventions

This manual uses the following notational conventions:
The letterings for connectors and controls are marked by square brackets and italics. Examples: [VOLUME] control, [Mono] button.
Texts and values displayed on the device are marked by quotation marks and italics. Examples: '24ch', 'OFF'.

Cross-referencesReferences 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 pos- sible 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 pos- sible dangerous situation that can result in minor injury if it is not avoided.
NOTICE!	This combination of symbol and signal word indicates a pos- sible 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.

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.

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 parquet, linoleum, laminate or PVC floor and after some time cause permanent dark stains.

In case of doubt, do not put the rubber feet directly on the floor, but use felt-pad floor protectors or a carpet.

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.

3 Features

The Moving Head is ideal for mobile DJs, entertainers and use in bars.

Special features of the device:

- 6 × 4in1 LED ring (RGBW, each 8 W)
- 1 × LED white light spot (30 W)
- Control via DMX (8, 15 or 20 channels), via buttons and display on the unit or via IR remote control (item no. 470390, optional)
- Preprogrammed automatic show programmes
- Two movable axles with 16 bit resolution:
 - Tilt (190°)
 - Pan (540°)
- Sound control
- Master / Slave mode
- Gobo wheel with 7 rotatable gobos
- Gobo-flow and gobo-shake functions
- Electronic dimmer
- Electronic shutter 0 ... 20 Hz

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).

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).

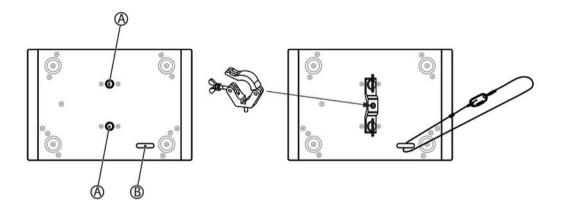
NOTICE!

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.

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, c-hooks etc. Safety cables are being threaded through the eyelet (B) on the bottom side of the housing.



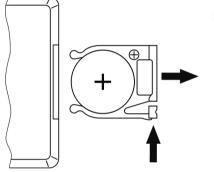
Please note that this device must not be connected to a dimmer.



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.



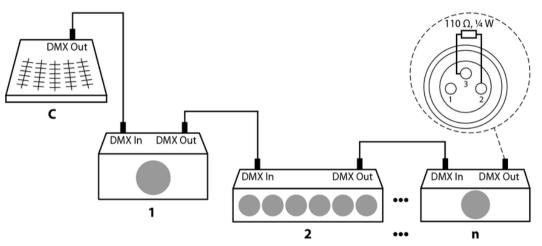


5 Starting up

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

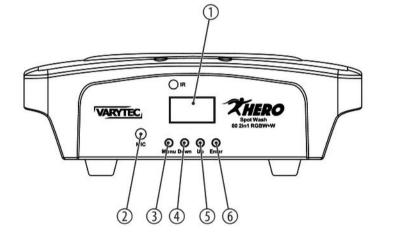
Connect the DMX input of the device to the DMX output of a DMX controller or another DMX device. Connect the output of the first DMX device to the input of the second one, and so on to form a daisy chain. Always ensure that the output of the last DMX device in the daisy chain is terminated with a resistor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

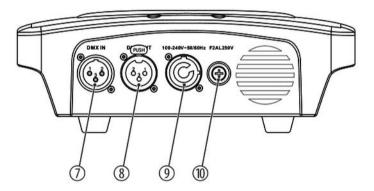


DMX indicator	When the device and the DMX controller are operational, the DMX indicator in the display shows that a DMX signal is being received on the input.
Connections in master/slave mode	When you configure a group of devices in master/slave mode, the first unit will control the other units for an 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





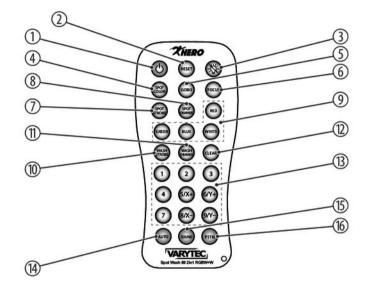
1	Display
2	Built-in microphone for sound control
3	[MENU]
	Activates the main and the settings menu and toggles between menu items. Closes an open submenu without saving any changes.
4	[DOWN]
	Decreases the displayed value by one.
5	[UP]
	Increases the displayed value by one.
6	[ENTER]
	Selects an option 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	Ċ	Turns the remote control on and off.
2	[RESET]	Performs a device reset (duration approx. 45 s).
3	*	Switches LEDs on or off in manual colour mixing mode.
4	[SPOT COLOR]	
		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	[FOCUS]	Adjusts the focus in eight steps.
7	[SPOT STROBE]	Adjusts the strobe effect of the Spot LED in eight steps.

	Button	Function	
8	[SPOT DIMMER]	Dims the total intensity of the spot area in six steps (+ two steps without func- tion).	
9	Manual colour mixing of the wash LEDs in four steps per colour		
	[RED]	Red	
	[GREEN]	Green	
	[BLUE]	Blue	
	[WHITE]	White	
10	[WASH STROBE]	Adjusts the strobe effect of the Wash LEDs in eight steps.	
11	[WASH DIMMER]	Dims the overall intensity of the Wash LEDs in eight steps.	
12	[CLEAR]	Switches off all set functions.	
		Press again for 💥 subsequent colour mixing.	
13	Number pad		

	Button	Function
	[1] [2] [3] [4] [5/X+] [6/Y+] [7] [8/X-]	When [AUTO] is activated:
	[9/Y-]	Selects the automatic programmes [1] [9] .
	[5/X+] [6/Y+] [8/X-] [9/Y-]	When [PSTN] is activated:
		Manually sets the static position.
14	[AUTO]	Activates the selection of automatic programmes.
15	[SOUND]	Activates the sound-control.
16	[PSTN]	Activates the manual static position adjustment.

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 indicated 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. Then press [MENU], [ENTER], [UP] or [DOWN] briefly to turn it on again.
	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 selection with [ENTER] and use [UP] or [DOWN] to select a value between 1 and 512 to set the desired DMX address.
	When the display shows the desired value confirm the setting with <i>[ENTER</i>]. To exit the menu item without making changes, press <i>[MENU</i>].
	Make sure that this number matches the configuration of your DMX controller.

DMX modeUse 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 setting with [ENTER] and use [UP] or [DOWN] to select one of the three
DMX modes (8-channel mode, 15-channel mode or 20-channel mode, display shows 'DMX 8
Ch', 'DMX 15 CH' or 'DMX 20 Ch').When the display shows the desired value confirm the setting with [ENTER]. To exit the menu
item without making changes, press [MENU].

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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 selection 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 setting with [ENTER]. To exit the menu
item without making changes, press [MENU].Auto programmesUse the 'Programs' 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 setting 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 setting 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 selection with [ENTER] and use [UP] or [DOWN] to select the desired parameter.

Parameter	Function
'Pan Rev'	Pan inversion
	Use [UP] or [DOWN] to select 'YES' (reverse rotation) or 'NO' (normal rotation).
'Tilt Rev'	Tilt inversion
	Use [UP] or [DOWN] to select 'YES' (reverse direction of inclination) or 'NO' (normal direction of inclination).
'Display Rev'	Display inversion
	Use [UP] or [DOWN] to select 'YES' (text in the display appears upside down) or 'NO' (text in the display appears normal).

Parameter	Function
'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 'OFF' (blackout in case of DMX failure) or 'HOLD' (last DMX signal is being held).
'Calibration'	Calibrating
	Detailed information about this menu item can be found under
'Factory Reset'	Reset to factory defaults
	Use [UP] or [DOWN] to select 'YES' (factory reset) or 'NO' (no factory reset).
'Reset Motor'	Resetting the motor

When the display shows the desired value confirm the setting 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 selection with [ENTER] and use [UP] or [DOWN] to select the submenu 'Calibration'.

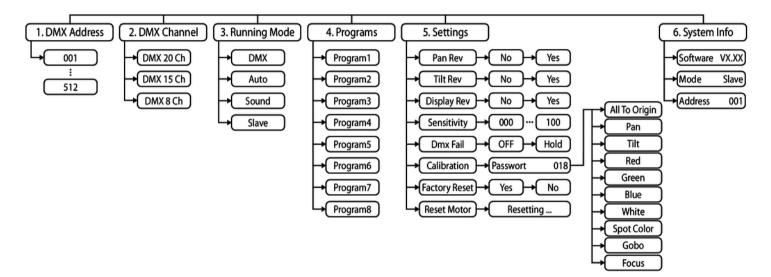
Confirm the selection with [ENTER]. The device prompts you to enter a password. Press [UP] or [DOWN] repeatedly until the display shows '018' and confirm the selection with [ENTER].

Use [UP] or [DOWN] to select the desired parameter you want 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.
'Red '	Sets the initial intensity for red.
'Green'	Sets the initial intensity for green.
'Blue'	Sets the initial intensity for blue.

	Parameter	Function
	'White'	Sets the initial intensity for white.
	'Spot Color'	Sets the initial colour of the spot.
	'Gobo'	Sets the first gobo.
	'Focus'	Sets the home position for focus.
	[DOWN] to select the de 0 255 for red, green,	s the desired parameter confirm the setting with <i>[ENTER]</i> . Use <i>[UP]</i> or esired value for the selected parameter (0 120 for pan and tilt, blue, white, light bundling, spot colour and gobo) and confirm the set- it the menu item without making changes, press <i>[MENU]</i> .
System information	Use the 'System Info' m	enu to call up information about the system.
		e the main menu and use [UP] or [DOWN] until the display shows he selection with [ENTER].
	The display shows the c address.	current software version, the current operating mode and the DMX start

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	Wash: Dimmer intensity from dark (0) to bright (255)		
4	Wash: Strobe / shutter (with dimmer open on channel 3)			
	09	Open		
	10250	Stroboscope effect, increasing speed		
	251255	Open		
5	0255	Spot: Dimmer intensity from dark (0) to bright (255)		
6	Spot: Strobe / shutter (with dimmer open on channel 5)			
	09	Open		
	10250	Stroboscope effect, increasing speed		

Channel	Value	Function
	251255	Open
7	Colour sequence a	nd gobos
	024	No function
	2550	Automatic colour sequence, color, gobo 1
	5175	Automatic colour sequence, color, gobo 2
	76100	Automatic colour sequence, color, gobo 3
	101125	Automatic colour sequence, color, gobo 4
	126150	Automatic colour sequence, color, gobo 5
	151175	Automatic colour sequence, color, gobo 6
	176200	Automatic colour sequence, color, gobo 7
	201255	Automatic colour sequence, colour, gobo (music control, from sound control off to high microphone sensitivity)
8	Auto programmes	



Channel	Value	Function
	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

7.4 Functions in 15-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	Wash: Dimmer intensity from dark (0) to bright (255)
4 Wash: Strobe / shutter (with dimmer open on channel 3)		tter (with dimmer open on channel 3)
	09	Open
	10250	Stroboscope effect, increasing speed
	251255	Open
5	0250	Intensity red (0 % to 100 %)
6	0250	Intensity green (0 % to 100 %)
7	0250	Intensity blue (0 % to 100 %)
8	0250	Intensity white (0 % to 100 %)

Channel	Value	Function	
9	Colour macros (with the dimmer open, channel 4 must be set between 251 and 255)		
	010	No function	
	1120	Red	
	2130	Green	
	3140	Blue	
	4150	White	
	5160	Red, white	
	6170	Green, white	
	7180	Blue, white	
	8190	Red, green	
	91100	Green, blue	
	101110	Red, blue	
	111120	Red, green, white	



Channel	Value	Function
	121130	Green, blue, white
	131140	Red, blue, white
	141150	Red, green, blue, white
	151200	Colour change, increasing speed
	201255	Colour transition, increasing speed
10	0255	Spot: Dimmer intensity from dark (0) to bright (255)
11	Spot: Strobe / shutter (with dimmer open on channel 5)	
	09	Open
	10250	Stroboscope effect, increasing speed
	251255	Open
12	Colour wheel	
	024	White (open)
	2550	Red

Channel	Value	Function
	5175	Yellow
	76100	Light blue
	101125	Green
	126150	Amber
	151175	Purple
	176200	Blue
	201255	Colour wheel with alternating direction of rotation, rainbow effect, increasing speed
13	Gobo and gobo-sh	ake function
	010	Open (white)
	1120	Gobo 1
	2130	Gobo 2
	3140	Gobo 3
	4150	Gobo 4



Channel	Value	Function
	5160	Gobo 5
	6170	Gobo 6
	7180	Gobo 7
	8190	Gobo 1 shake, increasing speed
	91100	Gobo 2 shake, increasing speed
	101110	Gobo 3 shake, increasing speed
	111120	Gobo 4 shake, increasing speed
	121130	Gobo 5 shake, increasing speed
	131140	Gobo 6 shake, increasing speed
	141150	Gobo 7 shake, increasing speed
	151255	Gobo rotation, clockwise and counterclockwise yo-yo effect, from fast to slow
14	0255	Focus
15	Auto programmes	



Channel	Value	Function
	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 Functions in 20-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° 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	Wash: Dimmer intensity from dark (0) to bright (255)
7 Wash: Strobe / shutter (with dimmer open on channel 6)		tter (with dimmer open on channel 6)
	09	Open
	10250	Stroboscope effect, increasing speed
	251255	Open
8	0250	Intensity red (0 % to 100 %)



Channel	Value	Function
9	0250	Intensity green (0 % to 100 %)
10	0250	Intensity blue (0 % to 100 %)
11	0250	Intensity white (0 % to 100 %)
12	0250	Gradual increase in colour temperature (0 % bis 100 %)
13	Colour macros (wit	h the dimmer open, channel 7 must be set between 251 and 255)
	010	No function
	1120	Red
	2130	Green
	3140	Blue
	4150	White
	5160	Red, white
	6170	Green, white
	7180	Blue, white



Channel	Value	Function
	8190	Red, green
	91100	Green, blue
	101110	Red, blue
	111120	Red, green, white
	121130	Green, blue, white
	131140	Red, blue, white
	141150	Red, green, blue, white
	151200	Colour change, increasing speed
	201255	Colour transition, increasing speed
14	0255	Spot: Dimmer intensity from dark (0) to bright (255)
15	Spot: Strobe / shut	ter (with dimmer open on channel 5)
	09	Open
	10250	Stroboscope effect, increasing speed

Channel	Value	Function
	251255	Open
16	Colour wheel	
	024	White (open)
	2550	Red
	5175	Yellow
	76100	Light blue
	101125	Green
	126150	Amber
	151175	Purple
	176200	Blue
	201255	Colour wheel with alternating direction of rotation, rainbow effect, increasing speed
17	Gobo and gobo-sh	ake function
	010	Open (white)



Channel	Value	Function
	1120	Gobo 1
	2130	Gobo 2
	3140	Gobo 3
	4150	Gobo 4
	5160	Gobo 5
	6170	Gobo 6
	7180	Gobo 7
	8190	Gobo 1 shake, increasing speed
	91100	Gobo 2 shake, increasing speed
	101110	Gobo 3 shake, increasing speed
	111120	Gobo 4 shake, increasing speed
	121130	Gobo 5 shake, increasing speed
	131140	Gobo 6 shake, increasing speed



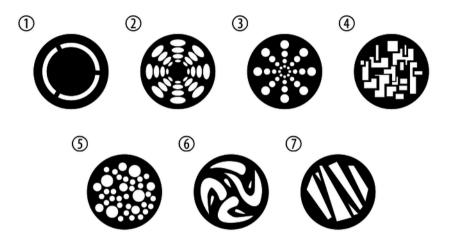
Channel	Value	Function
	141150	Gobo 7 shake, increasing speed
	151255	Gobo rotation, clockwise and counterclockwise yo-yo effect, from fast to slow
18	0255	Focus
19	Colour sequence a	nd gobos
	024	No function
	2550	Automatic colour sequence, color, gobo 1
	5175	Automatic colour sequence, color, gobo 2
	76100	Automatic colour sequence, color, gobo 3
	101125	Automatic colour sequence, color, gobo 4
	126150	Automatic colour sequence, color, gobo 5
	151175	Automatic colour sequence, color, gobo 6
	176200	Automatic colour sequence, color, gobo 7

Channel	Value	Function
	201255	Automatic colour sequence, colour, gobo (music control, from sound control off to high microphone sensitivity)
20	Auto programmes	
	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



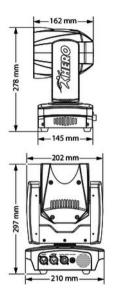
Channel	Value	Function
	231240	Reset, if the value is transmitted for at least 3 seconds
	241255	No function

7.6 Gobos





8 Technical specifications



Light source		$6 \times 4in1 RGBW LED ring, 8 W$
		$1 \times \text{LED}$ white light spot, 30 W
Optical properties	Beam angle	Wash: 25°
		Spot: 13°
Rotation angle (pan), max.		540°
Inclination angle (tilt), max.		190°
Control protocol		DMX512
Control		DMX
		Buttons and display on the unit
		IR remote control (item no. 470390, optional)
Number of DMX channels		8, 15, 20

Power consumption		110 W
Input connections	Voltage supply	Lockable input socket (Power Twist)
	DMX control	XLR chassis socket, 3-pin
Output connections	DMX control	XLR chassis socket, 3-pin
Operating supply voltage		AC 100 – 240 V ~ 50/60 Hz
Fuse		5 mm × 20 mm, 2 A, 250 V, fast- acting
Protection class		IP20
Battery for the remote control	Battery type	Lithium button cell, 3 V, CR 2025
Dimensions (W \times H \times D)		210 mm \times 297 mm \times 145 mm
Weight		4.5 kg
Ambient conditions	Temperature range	0 °C40 °C
	Relative humidity	50 %, non-condensing



Further information

Illuminant type	LED
Rotating gobos	No
Static gobos	Yes
Motorized focus	Yes
Colour mixture	Colour wheel
Prism	No
Iris	No
Zoom	No
Number of colour wheels	1

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 con- troller	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



Disposal of batteries



For the transport and protective 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 these materials with your normal household waste, but make sure that they are fed to a recovery. Please follow the notes and markings on the packaging.

Batteries must not be disposed of as domestic waste or thrown into fire. Dispose of the batteries according to national or local regulations regarding hazardous waste. To protect the environment, dispose of empty batteries at your retail store or at appropriate collection sites.

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 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.