VARYTEC

Hero Wash
340FX RGBW Zoom

User manual

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 *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'* .

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
	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 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.

!

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 ℃ (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

Special features of the device:

- 3 four-colour LEDs 4in1 (RGBW, each 40 W)
- Adjustable beam angle from 4° to 45° with motorised zoom
- Continuous FX rotation
- Control via DMX (8 or 16 channels), via buttons and display on the unit or via IR remote control (item no. 451696, optional)
- Built-in automatic show programmes
- Sound control
- Master / Slave mode
- Strobe effect
- Electronic dimmer
- Robust metal and plastic housing

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.

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 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
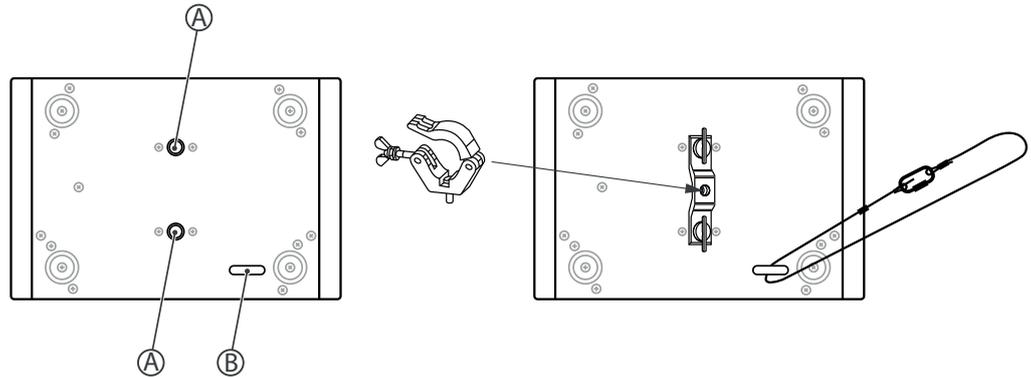
The threads on the bottom side of the housing (A) allow the secure attachment of the included mounting bracket. There, you can fasten adapters such as half couplers, trigger clamps, c-hooks etc. Safety cables are being threaded through the eyelet (B) on the bottom side of the housing.

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.
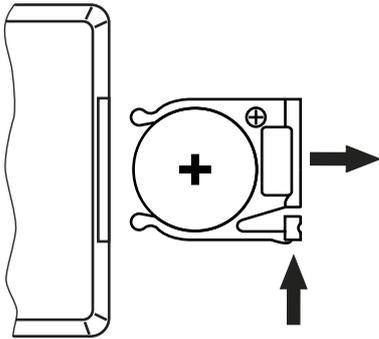
5   Starting up

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 Out

C

110 Ω, ¼ W

3

1   2

DMX In   DMX Out

1

DMX In   DMX Out

2

DMX In   DMX Out

n
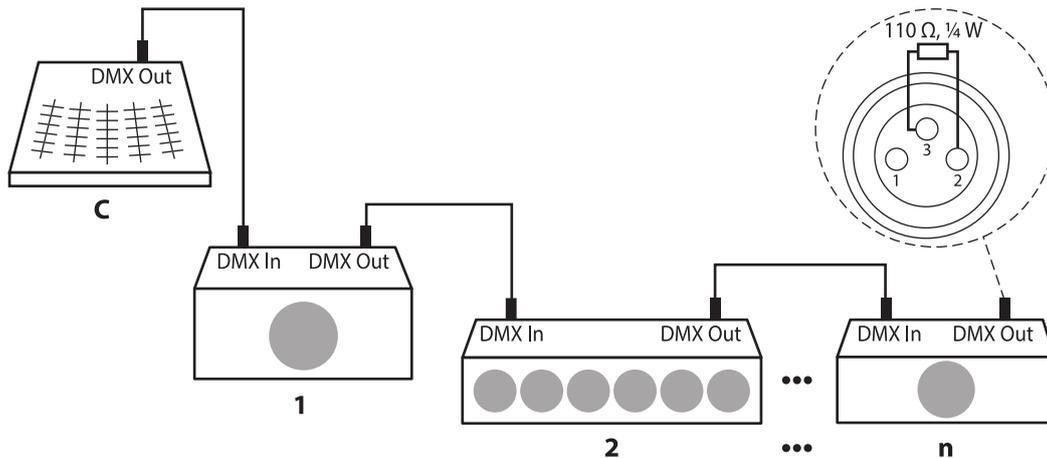
Connections in master/slave mode

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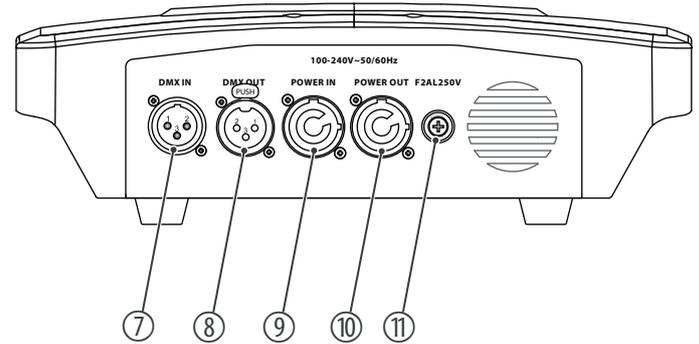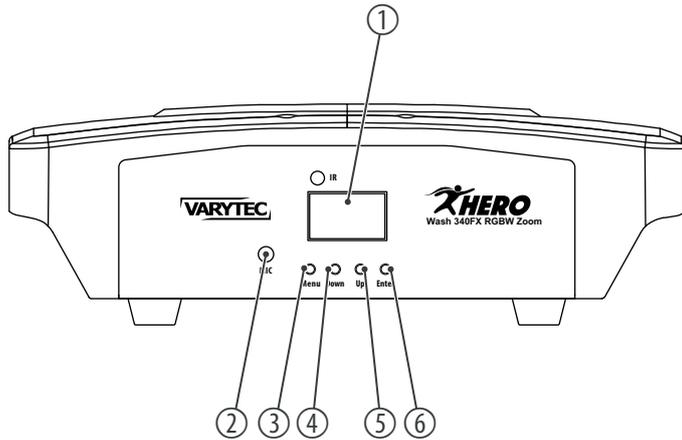
1	Display
2	Built-in microphone for sound control
3	*[MENU]* Activates the main and the settings menu and toggles between menu items. Closes an open submenu without saving any changes.
4	*[DOWN]* Decreases the displayed value by one.
5	*[UP]* Increases the displayed value by one.
6	*[ENTER]* Selects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

9	*[POWER IN]* Lockable input socket (Power Twist) for mains power supply
10	*[POWER OUT]* Lockable output socket (Power Twist) for powering a connected device
11	Fuse holder

Remote control
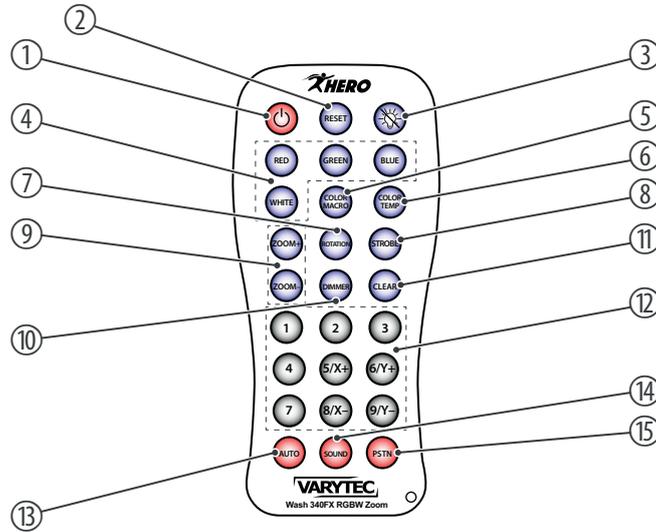
	Button	Function
1	⏻	Turns the remote control on and off.
2	*[RESET]*	Performs a device reset (duration approx. 45 s).
3	☼	Switches LEDs on or off in manual colour mixing mode.
4	Manual colour mixing in four steps per colour	
	[RED]	Red
	[GREEN]	Green
	[BLUE]	Blue
	[WHITE]	White
5	*[COLOR MACRO]*	Colour macros
6	*[COLOR TEMP]*	White light macros
7	*[ROTATION]*	Enables the Beam effect.
8	*[STROBE]*	Adjusts the strobe effect in eight steps.
9	*[ZOOM+] / [ZOOM-]*	Setting the zoom in manual colour mixing mode.

	Button	Function
10	*[DIMMER]*	Dims the overall intensity in the manual colour mixing mode.
11	*[CLEAR]*	Switches off all set functions. Press again ☼ for subsequent manual colour mixing.
12	Number pad	
	[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.
13	*[AUTO]*	Activates the selection of automatic programmes.
14	*[SOUND]*	Activates the sound-control.
15	*[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 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 16-channel mode, display shows *'DMX 8 Ch'* or *'DMX 16 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).
'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).

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 the option *'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 ⮎ *'Calibrating' on page 39*.
'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.
'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.
'Zoom'	Sets the initial setting for the zoom.
'Rotation'	Setting the initial setting for the rotation.

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 for Pan and Tilt, 0 … 255 for red, green, blue, white, zoom and rotation) 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

1. DMX Address	2. DMX Channel	3. Running Mode	4. Programs	5. Settings			6. System Info	
001	DMX 16 Ch	DMX	Program1	Pan Rev	No	Yes	Software VX.XX	
⋮	DMX 8 Ch	Auto	Program2	Tilt Rev	No	Yes	Mode DMX	
512		Sound	Program3	Display Rev	No	Yes	Address 001	
		Slave	Program4	Sensitivity	001 … 100			
			Program5	Dmx Fail	OFF	Hold		
			Program6	Calibration	Passwort 018		All To Origin	
			Program7	Factory Reset	Yes	No	Pan	
			Program8	Reset Motor	Resetting ...		Tilt	
							Red	
							Green	
							Blue	
							White	
							Zoom	
							Rotation	

7.3   Functions in 8-channel DMX mode

Channel	Value	Function
1	0…255	Rotation (pan) (0° up to the maximum value of the Pan area. middle position: 128)
2	0…255	Inclination (tilt) (0° up to the maximum value of the Tilt area. middle position: 128)
3	0…255	Dimmer intensity from dark (0) to bright (255)
4	Stroboscope / shutter (dimmer must be open)	
	0…9	Open
	10…250	Stroboscope, increasing speed (0 … 20 Hz)
	251…255	Open
5	Colour macros (dimmer must be open, channel 4 must be set to a value between 251 and 255)	
	0…10	No function
	11…20	Red
	21…30	Green

Channel	Value	Function
	31…40	Blue
	41…50	White
	51…60	Red, white
	61…70	Green, white
	71…80	Blue, white
	81…90	Red, green
	91…100	Green, blue
	101…110	Red, blue
	111…120	Red, green, blue
	121…130	Green, blue, white
	131…140	Red, blue, white
	141…150	Red, green, blue, white
	151…200	Colour sequence, increasing speed

Channel	Value	Function
	201…255	Colour transition, increasing speed
6	0…255	Gradual zooming, increasing
7	Beam effects	
	0…100	Closed to open (0°…90°)
	101…133	Yo-yo effect, increasing speed
	134…194	Gobo wheel rotation clockwise, decreasing speed
	195…255	Rotation clockwise, increasing speed
8	Auto programmes	
	0…10	No function
	11…20	Preprogrammed automatic show 1
	21…30	Preprogrammed automatic show 2
	31…40	Preprogrammed automatic show 3
	41…50	Preprogrammed automatic show 4

Channel	Value	Function
	51…60	Preprogrammed automatic show 5
	61…70	Preprogrammed automatic show 6
	71…80	Preprogrammed automatic show 7
	81…90	Preprogrammed automatic show 8
	91…230	Sound control, from sound control off to high microphone sensitivity
	231…240	Reset, if the value is transmitted for at least 3 seconds
	241…255	No function

7.4 Functions in 16-channel DMX mode

Channel	Value	Function
1	0…255	Rotation (pan) (0° up to the maximum value of the Pan area. middle position: 128)
2	0…255	Fine adjustment rotation (pan) 16 bit
3	0…255	Inclination (tilt) (0° up to the maximum value of the Tilt area. middle position: 128)
4	0…255	Fine adjustment inclination (pan) 16 bit
5	0…255	Speed of rotation (pan) and inclination (tilt), fast (0) to slow (255)
6	0…255	Dimmer intensity from dark (0) to bright (255)
7		Shutter (dimmer must be open)
	0…9	Open
	10…250	Stroboscope, increasing speed (0 … 20 Hz)
	251…255	Open
8	0…255	Intensity red (0 % to 100 %)

Channel	Value	Function
9	0…255	Intensity green (0 % to 100 %)
10	0…255	Intensity blue (0 % to 100 %)
11	0…255	Intensity white (0 % to 100 %)
12	Colour temperature	
	0	No function
	1…31	2400 K
	32…63	3600 K
	64…95	4800 K
	96…127	6000 K
	128…159	7200 K
	160…191	8400 K
	192…223	9600 K
	224…255	10800 K

Channel	Value	Function
13	Colour macros	
	0…10	No function
	11…20	Red
	21…30	Green
	31…40	Blue
	41…50	White
	51…60	Red, white
	61…70	Green, white
	71…80	Blue, white
	81…90	Red, green
	91…100	Green, blue
	101…110	Red, blue
	111…120	Red, green, blue

Channel	Value	Function
	121…130	Green, blue, white
	131…140	Red, blue, white
	141…150	Red, green, blue, white
	151…200	Colour sequence, increasing speed
	201…255	Colour transition, increasing speed
14	0…255	Gradual zooming, increasing
15	Beam effects	
	0…100	Closed to open (0°…90°)
	101…133	Yo-yo effect, increasing speed
	134…194	Gobo wheel rotation clockwise, decreasing speed
	195…255	Rotation clockwise, increasing speed
16	Auto programmes	
	0…10	No function

Channel	Value	Function
	11…20	Preprogrammed automatic show 1
	21…30	Preprogrammed automatic show 2
	31…40	Preprogrammed automatic show 3
	41…50	Preprogrammed automatic show 4
	51…60	Preprogrammed automatic show 5
	61…70	Preprogrammed automatic show 6
	71…80	Preprogrammed automatic show 7
	81…90	Preprogrammed automatic show 8
	91…230	Sound control, from sound control off to high microphone sensitivity
	231…240	Reset, if the value is transmitted for at least 3 seconds
	241…255	No function

8   Technical specifications
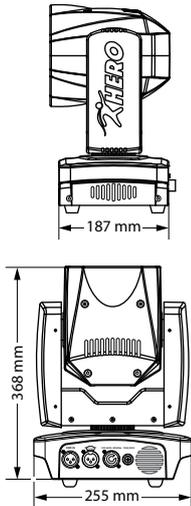
Light source		3 × RGBW 4-in-1 LED, 40 W
Light source properties	Colour temperature	2400 K…10800 K, adjustable
Optical properties	Beam angle	4°…45°, adjustable via motorised zoom
Rotation angle (pan), max.		540°
Inclination angle (tilt), max.		210°
Control protocols	DMX512	
Control	DMX	
	Buttons and display	
	IR remote control (item no. 451696), optional	
Number of DMX channels		8, 16
Input connections	Power supply	Lockable input socket (Power twist)

187 mm

368 mm

255 mm

	DMX control	XLR chassis socket, 3-pin
Output connections	Power supply	Lockable output socket (Power twist)
	DMX control	XLR chassis socket, 3-pin
Power consumption		max. 134 W
Inrush current		88 A, 80 μs
Supply voltage		100 – 240 V ∼ 50/60 Hz
Fuse		5 mm × 20 mm, 2 A, 250 V, fast-acting
Degree of protection		IP20
Battery for the remote control	Battery type	Lithium button cell, 3 V, CR 2025
Dimensions (W × H × D)		255 mm × 187 mm × 368 mm
Weight		6.1 kg
Ambient conditions	Temperature range	0 ℃…40 ℃
	Relative humidity	20 %…80 % (non-condensing)

Further information

Light output	120 W
Colour mixture	RGBW
Motorized zoom	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 *www.thomann.de*.

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 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.

Disposal of batteries

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.

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