

Easy Move XS HP Wash

moving head

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18.11.2019, ID: 267993 (V3)

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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 (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.

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

Examples: '24ch', 'OFF'.

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.

Warning signs	Type of danger
	Warning – dangerous optical radiation.
	Warning – suspended load.
\triangle	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

Compact and powerful moving head for small venues and mobile use.

Special features of the device:

- 18 × RGB LEDs (each 3 W)
- Control via DMX (five or twelve channels) as well as buttons and display on the unit
- Auto mode with eight preprogrammed show programmes
- Sound control with eight preprogrammed show programmes
- Master / Slave mode
- Strobe effect
- Movement resolution 8 Bit or 16 Bit

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).



Possible data transmission errors

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

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



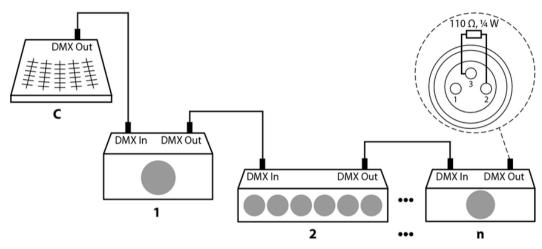
Please note that this device must not be connected to a dimmer.

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

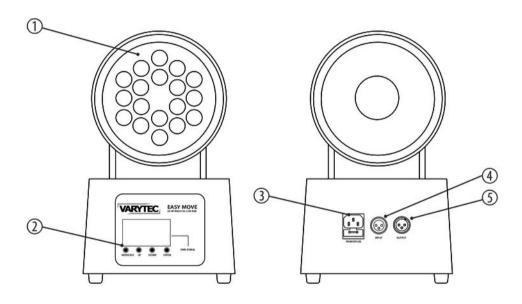


The flashing 'DMX' LED indicates an incoming DMX signal.

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.

Connections and controls



1 Spotlight head with LEDs.

2 Display with function buttons.

[MODE/ESC]

Activates the main menu and toggles between menu items. Closes an opened submenu.

[UP]

Increases the displayed value by one.

[DOWN]

Decreases the displayed value by one.

[ENTER]

Selects an option of the respective operating mode.

3 [POWER/FUSE]

IEC chassis plug for power supply with fuse holder.

Connections and controls

4	[INPUT]
	DMX input
5	[OUTPUT]
	DMX output

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), the screen displays a start message. After a few more seconds, the device operates in the last set mode.

7.2 Operating modes

Auto mode

Automatic operation can only be activated when the unit is operating in stand alone mode or as master in a master / slave combination. This setting is only relevant if the device is not controlled via DMX.

Press [MODE/ESC] repeatedly until the display shows 'NAFA' or 'NAFL'. Use [UP] or [DOWN] to toggle between the both options 'NAFA' (fast auto mode) and 'NAFL' (slow auto mode).

Confirm with [ENTER]. Depending on the sub mode the display shows 'Fast' (fast auto mode) or 'SloU' (slow auto mode). To close the sub menu and the main menu without making changes, press [MODE/ESC] or wait for several seconds.

Sound control

Sound control can only be activated when the unit is operating in stand alone mode or as master in a master / slave combination. This setting is only relevant if the device is not controlled via DMX. In this operating mode, the device responds to acoustic pulses which are recorded by the integrated microphone.

Press [MODE/ESC] repeatedly until the display shows 'NStS'. Confirm with [ENTER]. The display shows 'SrUn', the unit is now in sound control mode.

To close the sub menu and the main menu without making changes, press [MODE/ESC] or wait for several seconds.

Slave mode

This setting is only relevant if the device is not controlled via DMX.

Press [MODE/ESC] repeatedly until the display shows 'SLAu'. Confirm with [ENTER]. The display shows 'Son', the unit is now in slave mode.

To close the sub menu and the main menu without making changes, press [MODE/ESC] or wait for several seconds.

DMX operation

Press [MODE/ESC] repeatedly until the display shows '5CH' or '13CH'. Use [UP] or [DOWN] to toggle between the both options '5CH' (five channels, four of them occupied) and '13CH' (13 channels, 12 of them occupied).

Make sure that the DMX address matches the configuration of your DMX controller. The following table shows the highest possible DMX address for the various DMX modes.

Mode	Highest possible DMX address
5-channel	508
13-channel	500

Confirm with [ENTER]. To close the sub menu and the main menu without making changes, press [MODE/ESC] or wait for several seconds.

7.3 System settings

Maximum rotation angle

This menu can be used to set the maximum rotation angle.

Press [MODE/ESC] repeatedly until the display shows 'PA18', 'PA36' or 'PA54'. Use [UP] or [DOWN] to toggle between the available options.

- 'PA18', maximum rotation angle 180°
- 'PA36', maximum rotation angle 360°
- 'PA54', maximum rotation angle 540°

Confirm with [ENTER]. To close the sub menu and the main menu without making changes, press [MODE/ESC] or wait for several seconds.

Maximum inclination angle

This menu can be used to set the maximum inclination angle.

Press [MODE/ESC] repeatedly until the display shows 't.9' or 't.18'. Use [UP] or [DOWN] to toggle between the available options.

- 't.9', maximum inclination angle 90°
- 't.18', maximum inclination angle 180°

Confirm with [ENTER]. To close the sub menu and the main menu without making changes, press [MODE/ESC] or wait for several seconds.

Pan inversion

Press [MODE/ESC] repeatedly until the display shows 'Pan' or 'rPan'. Use [UP] or [DOWN] to toggle between the available options.

- 'Pan', normal rotation direction
- 'rPan', reversed rotation direction

Confirm with [ENTER]. To close the sub menu and the main menu without making changes, press [MODE/ESC] or wait for several seconds.

Tilt inversion

Press [MODE/ESC] repeatedly until the display shows 't.L' or 'rt.L'. Use [UP] or [DOWN] to toggle between the available options.

- 't.L', normal tilt direction
- 'rt.L', reversed tilt direction

Confirm with [ENTER]. To close the sub menu and the main menu without making changes, press [MODE/ESC] or wait for several seconds.

Operating

Invert the display

Press [MODE/ESC] repeatedly until the display shows 'd.s' or 'rd.s'. Use [UP] or [DOWN] to toggle between the available options.

- 'd.s', normal display
- 'rd.s', inverted display

Confirm with [ENTER]. To close the sub menu and the main menu without making changes, press [MODE/ESC] or wait for several seconds.

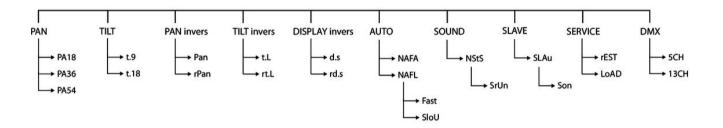
Resetting user settings

Press [MODE/ESC] repeatedly until the display shows 'rEST'. Confirm with [ENTER] to reset the user settings.

Reset to factory defaults

Press [MODE/ESC] repeatedly until the display shows 'LoAD'. Confirm with [ENTER] to reset the unit to factory defaults.

7.4 Menu overview



7.5 Functions in 5-channel DMX mode

Channel	Value	Function
1	0255	Rotation (pan)
2	0255	Inclination (tilt)
3	07	all LEDs off
	8134	Dimmer (100 % to 0 %)
	135239	Strobe effect (0 Hz to 40 Hz)
	240255	open
4	Basic colours	
	07	No function
	820	White
	2134	Red
	3548	Green

Channel	Value	Function
	4962	Blue
	6376	Bright blue
	7790	Magenta
	91104	Yellow
	105118	Orange
	119132	Pink
	133146	White with pink
	147160	White with blue
	161174	Cyan
	175188	Light green
	189202	Bright cyan
	203216	White
	217231	Violet

Operating

Channel	Value	Function
	232242	Fast colour change
	243255	Colour fade
5	No function	

7.6 Functions in 12-channel DMX mode

Channel	Value	Function
1	0255	Rotation (pan)
2	0255	Fine pan
3	0255	Inclination (tilt)
4	0255	Fine tilt
5	0255	Increasing rotation and inclination speed

Channel	Value	Function
6	07	all LEDs off
	8134	Dimmer (100 % to 0 %)
	135239	Strobe effect (0 Hz to 40 Hz)
	240255	open
7	0255	Intensity red (0 % to 100 %)
8	0255	Intensity green (0 % to 100 %)
9	0255	Intensity blue (0 % to 100 %)
10	Basic colours	
	07	No function
	820	White
	2134	Red
	3548	Green
	4962	Blue

Operating

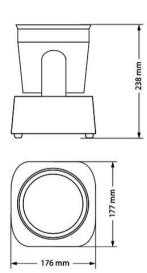
Channel	Value	Function
	6376	Bright blue
	7790	Magenta
	91104	Yellow
	105118	Orange
	119132	Pink
	133146	White with pink
	147160	White with blue
	161174	Cyan
	175188	Light green
	189202	Bright cyan
	203216	White
	217231	Violet
	232242	Fast colour change

Channel	Value	Function
	243255	Colour fade
11	0255	Speed automatic colour change
12	Auto and Sound pr	rogrammes
	07	No function
	822	Auto programme 1
	2337	Auto programme 2
	3853	Auto programme 3
	5467	Auto programme 4
	6882	Auto programme 5
	8397	Auto programme 6
	98112	Auto programme 7
	113127	Auto programme 8
	128142	Sound programme 1

Operating

Channel	Value	Function
	143157	Sound programme 2
	158172	Sound programme 3
	173187	Sound programme 4
	188202	Sound programme 5
	203217	Sound programme 6
	218232	Sound programme 7
	233255	Sound programme 8

8 Technical specifications



Light source	$18 \times \text{LED} (6 \times \text{red}, 6 \times \text{green}, 6 \times \text{blue}), \text{ each } 3 \text{ W}$	
Rotation angle (pan), max.		540°
Inclination angle (tilt), max.		180°
Control	DMX	
	Buttons and display on the un	it
Number of DMX channels	5, 12	
Input connections	Power supply	IEC chassis plug C14
	DMX control	XLR chassis socket, 3-pin
Output connections	DMX control	XLR chassis socket, 3-pin
Power consumption	80 W	
Supply voltage	AC 230 V ∼ 50 Hz	
Fuse	5 mm \times 20 mm, 2 A, fast blow	

Degree of protection	IP20	
Mounting options	Hanging, standing	
Dimensions (W \times H \times D)	$177~\text{mm}\times238~\text{mm}\times176~\text{mm}$	
Weight	4.5 kg	
Ambient conditions	Temperature range	0 °C40 °C
	Relative humidity	50 %, non-condensing

Further information

Colour mixture	RGB
Light output	54 W
Motorized zoom	No

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 DMX controller	1. The LED 'DMX' should be flashing on data transmission. If it doesn't, check the DMX connectors and cables for proper connection.
	2. If the LED 'DMX' lights up without response, check the address settings and DMX polarity.
	3. Try using another DMX controller.
	4. Check to see if the DMX cables run near or alongside to high voltage cables that may cause damage or interference to DMX interface circuits.

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