ERO Motion Heads 4W
Moving Head LED Light Effect

User manual

The information in this user manual is subject to change at any time without notice.

Version: 1.0 Date of creation and author's initials:24-01-2017 RV Revision date and author's initials: -

Introduction

Thank you for purchasing the ERO Motion Heads 4W. This versatile moving head LED light effect is designed to add atmosphere to any party or event with its brightl light beams and motorised armatures.

We advise that you read this user manual in its entirety before unpacking the contents of the box, so that you are familiar with all of the functionality that this product has to offer. Please be sure to check that all of the parts and accessories listed below under 'box contents' are included in the package. In the event that the ERO Motion Heads 4W does not function properly, or if you have any issues while operating it, please remove the plug from the power socket and contact your dealer for assistance.

Box contents:
- Ayra ERO Motion Heads 4W LED light effect
- 2 mounting brackets with quick couplers
- connection cable from IEC C13 to Schuko, 1.5 mm²
- connection cable from IEC C13 to UK plug, 1.5 mm²

Please inspect the device and the included accessories.
Should you discover that either the device or one or more of the included parts have been damaged or rendered defective while in transit, please contact your dealer directly.

Please note that the pictures in this user manual serve illustrative purposes only and may differ from the actual product.

Safety instructions

WARNING!

Keep this device away from moisture, water and rain to avoid the chance of electric shocks.

WARNING!

Only connect this device to a suitable power socket. This device functions on a specific power voltage. If it is plugged into a power socket with a different voltage, it could result in permanent damage and even dangerous situations such as fire or electric shocks.

WARNING!

Be careful when operating this device. Touching the wires that are connected to the mains, inside or outside the device, could result in electric shocks.

Everyone involved with the installation, operation and maintenance of this device must:
- Be qualified
- Be skilled
- Have read the instructions in this user manual
- Be sure that neither the device nor the included accessories are damaged. Should the device or the included accessories be damaged, please contact your dealer for more information.
- Ensure that the device is in good working condition and is safe to operate. Please follow the advice and instructions as they are described in this user manual.

Damage caused by misuse and/or modifications made to the device are not covered by the warranty.
This device does not contain any parts that can be repaired or replaced by the user. Should maintenance or repairs be necessary, they must be handled by a qualified technician.
The light source of this device is not replaceable. If the light source no longer functions, the entire device needs to be replaced.

Important information regarding safety and health:
- Do not remove any labels or stickers from this device.
- Do not leave any cables lying around.
- The device should not be opened up, and any hardware or software that may be present should not be modified.
- To achieve optimal performance, inputs on this device should not be fed with a signal higher than necessary.
- The device should only be used indoors; contact with water, rain and moisture should always be avoided. Do not place any objects containing liquid on top of the device.
- Remove the device from any nearby flames or heat sources; do not place it near flammable fluids, gasses or objects.
- Disconnect this device from a power source if it will not be used for a longer period of time, if maintenance

is necessary, or if it needs to be cleaned.
- Do not pull on the cable to remove a connector, as it can cause damage.
- Do not use any cables other than the ones described in this manual. Do not use defective cables. Please contact your dealer if the included or necessary cables do not function properly with this device.
- Only use this device with a stable AC power supply.
- Only use this device with power form a grounded power source.
- In the event that the device is exposed to extreme temperature changes (e.g. transported through a cold outside environment into a warm indoor environment), it should not be turned on until it has reached room temperature. This is necessary to prevent moisture from forming in the device, which could lead to electric shocks.

Guidelines and operation of this device:
- This device is intended for use by professionals on stage, in theatres, in clubs, and in similar entertainment locations.
- This device is not suitable for use by children, and should always be operated by an adult.
- This device is designed to create light effects for entertainment purposes. It is not suitable for household illumination.
- This device may only be used in a suitable environment where no damage to the device can occur. Do not use the device in moist or dusty environments such as:
    - indoor swimming pools where chlorine is used
    - beaches where there is sand and salt
    - outdoors
    - indoors in spaces where intense heat sources are present, or where it reaches temperature levels that would be considered uncomfortable for a person
- Avoid impact and collisions during use and transport. Do not transport the device while it is in use. Avoid using excessive force when installing and operating the device.
- The user should become familiar with the functions of this device before using it.
- Should the device not be used in the manner described in this user manual, damages or even injuries could occur. Ayra cannot be held responsible for any injuries or damages that occur as a result of improper use of this product.

Storage and transport:
- This product was designed for mobile use. Please only transport the device in the original packaging, or in a flight case with a suitable foam inlay.
- This device was not designed for permanent (24/7) use. The expected lifespan of the device will not be affected by occasionally turning the device off. Disconnect the device or turn off the power when it is not actively in use.
- If the device will not be used for a longer period of time, it should be disconnected and stored in a dust-free environment.
- Do not expose the device to extreme temperature differences.

Housing
- Inspect the device's housing frequently, and always just before use. Avoid operating the device if there are large dents or cracks, or if screws are missing. Do not use the device if the housing is not in good condition. Contact your dealer or a qualified technician if you are unsure about the state of the device.
- Check the device and the screws for corrosion. Corrosion must not be present on this device. Contact your dealer or a qualified technician if you find any corrosion on the screws.
Every power and signal connector should be securely mounted. Do not use the device if the connectors are not secure.
- Avoid dust and dirt build-up. Clean the device once a month by disconnecting it from the power supply and wiping it down with a dry or slightly moist cloth. If the device is used frequently, the cleaning intervals should increase.

Symbol explanation:

	WEEE: Ensure that this device is disposed of properly. This product falls under the WEEE (Waste Electrical and Electronic Equipment) directive. The requirements of this directive apply to all manufacturers and producers of electronic devices in the EU. Do not throw this product away with regular rubbish. Please contact your local authority for more information about how to recycle and dispose of these products in your region. By recycling this product in the proper manner, we can work together to ensure that we can continue to enjoy these kinds of products and still protect the environment as much as possible from pollution.
	CE: The CE logo indicates that this product meets the European norms and requirements to which it must legally conform.
	Only suitable for indoor use: this product was only designed for indoor use. The maximum environmental temperature must not exceed 40 degrees Celsius (104 degrees Fahrenheit).

Contact:
Ayra professional lighting products
Verrijn Stuartweg 18
4462 GE Goes
The Netherlands

Please do not send any products to this correspondence address.
Should you wish to send in a product for repairs or for a refund, please contact your dealer for an RMA request (Return Merchandise Authorisation).

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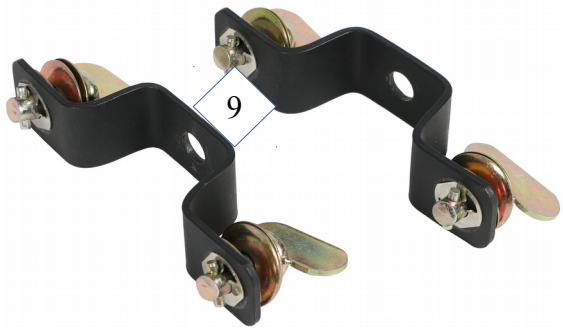
Guidelines and operation of this device



1. moving head with lens
2. power output IEC C13 (max. 9A)
3. power input IEC C14 with fuse holder
4. DMX input and output via 3-pin XLR male + female
5. safety eyelet for optional safety cable
6. LED display with menu buttons
7. rubber feet
8. 35mm stand adapter with 2 tightening knobs
9. quick-lock brackets, to be mounted on the bottom when suspending the device

Operation and mounting

To activate the device, plug it into a mains socket. Once it's connected to an active power source, it will turn on automatically.

During the start-up process, the step motors in the moving heads will calibrate and position themselves at absolute zero. The heads may vibrate or make a rattling noise during this process. This is normal and will not have a negative effect on the lifespan of the product.

During calibration, ‘AYRA’ will be shown on the display, which means the device is not ready to be operated. Once the device has fully started up, it will jump to the last-used mode. Operation modes and other settings shown on the display can now be adjusted or changed by means of the menu buttons.

Should the device detect a DMX signal, it will automatically switch to DMX mode and will display the last-used address. For new devices, this will normally be DMX address 001. Of course, you can change the DMX address via the display using the menu buttons.

Using the display and the menu buttons, you can adjust the functions and settings of the device. Press 'Enter' to confirm an adjustment or select a function, use ‘Up’ and ‘Down’ to change amounts and ‘Menu’ to go back to the menu. By holding the ‘Menu’ button down for 2 seconds after saving a specific setting, the device will return to operation mode and adopt the setting. This will also be done after any changes in the operation mode or DMX address. This operation is not always necessary, considering the device automatically does this after a new setting is confirmed.

The menu contains the following options and functions

Display	Function	Setting
ADDR / A001	DMX address configuration	Address A001 … A512
CHND	Channel mode selection	6CH/12CH/14CH/27CH
SLND	Slave mode	NAST = Master SL 1 = Slave 1 – sync mode SL 2 = Slave 2 – sync & mirrored mode
AUTO	Auto show 0-16 + speed	Auto show AU 0 – AU16 Push up/down for speed, select SP1 - SP9
SHND	Show mode selection (music-controlled)	Show 0-16
SOUND	Sound-controlled mode	Sound-controlled mode: ON / OFF
SENS	Sensitivity sound-controlled mode	000 – 100: Sensitivity in %
LED	LED display ON / OFF while device is in use	ON / OFF
DISP	Display invert	Invert display , disp - dslp
PAN	Invert pan movement	YES / NO
TILT	Invert tilt movement	YES / NO
TEST	Test mode	Test mode shows if the buttons and LEDs are functioning.
HOUR	Time registration	0000 – 9999 hours
VER	Firmware version	Firmware version, not to be upgraded by the user
RSET	Reset function	Restart the device as if you're re-connecting it to the power source.

You'll find an explanation of the various functions below:

ADDR: With this function, you can determine the DMX start address of the device. Set it channel 001, and the device will respond from DMX channel 1. Set it to channel 003, then the device will respond from DMX channel 3, etc.

CHND: This device is equipped with various DMX channel modes. With this function, you can choose a concise channel mode if your DMX circle is full and you do not require complete control over the functions. It is also possible to use the most comprehensive channel mode, which makes more channels available, each with its own separate function.

SLND: The Master-Slave mode is designed to sync multiple devices. A copy of the internal program is sent to the daisy-chained devices so that each one projects the same effect. The master-slave function works by means of standard 3-pin XLR cables. The only difference is that the first device in the chain does not receive DMX input.

The master-slave mode can be set to Slave 1 or Slave 2. Slave 1 copies the effect of the Master device directly, and Slave 2 toggles between synchronised and mirrored effects in sound-controlled mode.

PLEASE NOTE: When Slave mode is activated, the device will wait for a signal from the Master device. In that case, it is not possible to simply select an automatic or sound-controlled mode! To cancel this, select 'NAST' mode in the SLND menu, so the device goes to Master mode. Then, all standalone functions can be activated.

AUTO: Select one of the built-in programs and set the speed as desired. The device will then operate this program at a fixed speed.

SHND: The standard show mode reacts to music, making it slightly different than the automatic mode. Select a program in Show mode. The sensitivity level of the microphone function will ensure the program operates to the beat of the music.

SOUN: This setting shows if the microphone function is activated or not, which you can see in the display as ON or OFF.

SENS: This mode allows you to determine the sensitivity of the internal microphone. The further the device is from the speaker, the higher the sensitivity of the microphone needs to be so it can react properly to the music. The microphone is built to handle high sound pressure levels, but the louder the signal and the higher the microphone sensitivity level, the more difficulty the device will have detecting the beat of the music. Experiment with the level of sensitivity and distance/positioning of the device to find the best results.

LED: If the LED display is not in use, it can be de-activated by turning the LED mode OFF. The red symbols will no longer light up when using the device in a dark environment. Press one of the menu buttons and the display will light up again and show any relevant information. If the device registers that the menu is not actively being used, it will automatically turn off within 30 seconds.

DISP: This function determines whether the display is shown normally or inverted. If the device is suspended, the display may be harder to read. This function allows you to rotate it vertically for better legibility.

PAN/TILT: Invert the pan and/or tilt values separately so the motors turn in the opposite directions.

TEST: Should the device need cleaning or maintenance, this function can be used to test one or more devices simultaneously. The device plays a program continuously while the step motors and LEDs are used. This way you can quickly detect any abnormalities or defects. The device will run the program until it's stopped manually (for example when the sound-controlled mode is activated.)

HOUR: If this device is used professionally or rented, it should be regularly maintained and inspected in between use. The HOUR function shows exactly how long the device has been in use. This amount of time accumulates over time as long as the device is being used and cannot be manipulated by the user.

Operating modes

The following overview is designed to show the differences between the various operation modes that are supported by the above-mentioned menu functions.

Auto:
In automatic mode, the device is set to a fixed speed and will function according to the preset parameters. The device does not requite input from the built-in microphone, master-slave signals or DMX.

Sound:
When in Sound-controlled mode, the device's internal microphone detects the music and reacts to the beat. The device will move in sync with the music and provide an automated light show.

When there is no music for the device to detect or when only high frequencies are audible, the device will continue its program at a slower pace, so the light show will not stop abruptly. As soon as the microphone detects music again, it will resume the automated program and follow the beat.

Slave
In Slave mode, you can daisy-chain multiple devices of the same type so they all function a specific way. This way you can coordinate your light show by having multiple separate devices moving the same way instead of all different directions, which can be chaotic. Basically, you can connect an unlimited number of slave devices to a master device, but a DMX booster is required in between. Generally speaking, you can connect up to four armatures together without the need for a DMX booster.

Be aware that when you attempt to connect devices of different types and brands, they may behave strangely and you may not get the desired effect because certain functions are linked to the wrong channels. This is true of DMX lighting of all brands and types.

DMX
The DMX mode is the most comprehensive way to maintain ultimate control over all the functions this device has to offer. It enables you to determine exactly how many functions you want to control via the DMX controller or DMX software.

This device can be set to various channel modes so the channel layout, which is shown below, corresponds perfectly with your DMX circle layout, as well as with the functions you will be using.

6CH

Channel	Function	Values
1	Dimmer: 0 - 100%	000-255 0-100% intensity
2	Stroboscope, slow to fast	000-255 slow - fast
3	Built-in shows	000-007 No function 008-022 Show 1 023-037 Show 2 038-052 Show 3 053-067 Show 4 068-082 Show 5 083-097 Show 6 098-112 Show 7 113-127 Show 8 128-142 Show 9 143-157 Show 10 158-172 Show 11 173-187 Show 12 188-202 Show 13

		203-217 Show 14 218-232 Show 15 233-247 Show 16 248-255 Sound-controlled mode
4	Speed built-in show	000-255 slow - fast
5	LED chases	000-014 no function 015-035 LED show 1 036-056 LED show 2 057-076 LED show 3 077-097 LED show 4 098-117 LED show 5 118-138 LED show 6 139-159 LED show 7 160-179 LED show 8 180-255 open white
6	LED chase speed	000-255 slow - fast

12CH

Channel	Function	Values
1	Pan movement head 1	000-255
2	Tilt movement head 1	000-255
3	Dimmer 0-100% head 1	000-255 0-100%
4	Pan movement head 2	000-255
5	Tilt movement head 2	000-255
6	Dimmer 0-100% head 2	000-255 0-100%
7	Pan movement head 3	000-255
8	Tilt movement head 3	000-255
9	Dimmer 0-100% head 3	000-255 0-100%
10	Pan movement head 4	000-255
11	Tilt movement head 4	000-255
12	Dimmer 0-100% head 4	000-255 0-100%

14CH

Channel	Function	Values
1	Master dimmer 0-100%	000-255 0-100% intensity
2	Stroboscope, fast to slow	000-255 slow - fast
3	Pan movement head 1	000-255
4	Tilt movement head 1	000-255
5	Dimmer 0-100% head 1	000-255 0-100% intensity
6	Pan movement head 2	000-255

7	Tilt movement head 2	000-255
8	Dimmer 0-100% head 2	000-255 0-100% intensity
9	Pan movement head 3	000-255
10	Tilt movement head 3	000-255
11	Dimmer 0-100% head 3	000-255 0-100% intensity
12	Pan movement head 4	000-255
13	Tilt movement head 4	000-255
14	Dimmer 0-100% head 4	000-255 0-100% intensity

27CH

Channel	Function	Values
1	Master dimmer 0-100%	000-255 0-100% intensity
2	Stroboscope, slow to fast	000-255 slow - fast
3	Pan movement head 1	000-255
4	Fine pan movement head 1	000-255
5	Tilt movement head 1	000-255
6	Fine tilt movement head 1	000-255
7	Maximum movement speed head 1	000-255 fast - slow
8	Dimmer 0-100% head 1	000-255 0-100% intensity
9	Pan movement head 2	000-255
10	Fine pan movement head 2	000-255
11	Tilt movement head 2	000-255
12	Fine tilt movement head 2	000-255
13	Maximum movement speed head 2	000-255 fast - slow
14	Dimmer 0-100% head 2	000-255 0-100% intensity
15	Pan movement head 3	000-255
16	Fine pan movement head 3	000-255
17	Tilt movement head 3	000-255
18	Fine tilt movement head 3	000-255
19	Maximum movement speed head 3	000-255 fast - slow
20	Dimmer 0-100% head 3	000-255 0-100% intensity
21	Pan movement head 4	000-255
22	Fine pan movement head 4	000-255

23	Tilt movement head 4	000-255
24	Fine tilt movement head 4	000-255
25	Maximum movement speed head 4	000-255 fast - slow
26	Dimmer 0-100% head 4	000-255 0-100% intensity
27	Operating modes	000-199 No function 200-209 Reset 210-240 No function 241-255 Sound-controlled mode

Power supply
The ERO Motion Heads 4W is equipped with a power input to supply the device with power, but also an output to supply power to other devices, which means you won't need power strips or other power distributors.

The power connectors for the ERO Motion Heads 4W have a power capacity of 4A, subtracted by the maximum power consumption of the device. With a small built-in safety margin the output on the ERO Motion heads 4W should be fed with a maximum of 9A.

This is more than enough to supply power to multiple devices of the same type via a single power line.

Bear in mind that the installed fuse in the ERO Motion Heads 4W is designed to only protect the device itself. The power output is not protected.

Installation and connection requirements

Now that you know how the ERO Motion Heads 4W works, it's important to know how to use it correctly and safely, according to the installation and connection requirements.

Make sure the device and connection cables are out of reach of children, and that if children are present, they are under adult supervision at all times. Because this device can be used upright or suspended, children could pull on the cables, causing the device to fall on top of them. To avoid injury, it is important to pay close attention to the position and/or installation of this device.

Upright use
Should you want to use the ERO Motion Heads 4W in an upright position, make sure it's on a flat, stable surface like a table, DJ booth or bar. The ERO Motion Heads 4W is equipped with rubber feet that grip the surface underneath it. Despite the fact that this device is designed to move, it is heavy enough to remain stable while standing upright as long as the surface it's on is stable enough.

For use on a stand (35mm adapter)
The ERO Motion Heads 4W is equipped with a centrally-located stand adapter. With it, you can mount the device to a suitable light or audio stand. Ensure that the knobs are tightened so the device is mounted securely and in the correct position.

Also, make sure that the feet of the stand are extended to create a stable foundation for the device to operate on. Keep an eye on the height of the stand. The higher the stand, the higher the point of gravity, which means the risk of the device falling is greater, should anything collide with the stand.

Suspended use (brackets)
Should you want to suspend the ERO Motion Heads 4W, you'll need the special mounting brackets with quick couplers that are included. These fit in the gold-coloured dishes located on the rear of the device. Place the brackets and the coupler over the dishes and allow the pins to fall into the corresponding holes. You may need to rotate the couplers if necessary. Once the coupler pins have successfully fallen into the holes, rotate them a quarter turn to the right to lock them into place. You'll need to apply some pressure to do this, so pushing the tightening knob down can help.

If you want to mount a half coupler or a G-hook to the brackets, it is advised to do this before mounting the brackets to the armature. You can find standard hooks and/or brackets for 35 or 50mm tubes (truss or light stand) at your local dealer.

Hardware for mounting the ERO Motion Heads 4W to the wall, ceiling, or beam is not included. Contact a specialist if you're not surewhich hardware is required for your situation. A wooden beam and stone wall require different mounting methods.

Should you want to suspend the ERO Motion Heads 4W, you will need to attach a safety cable to the armature. This is not included, but is available at your local dealer. The ERO Motion Heads 4W is equipped with an eyelet for hooking safety cable. Once it's hooked on, you can wrap the cable around the truss or light stand and attach it again by means of the same hook. This ensures the device is secured and prevents it from falling, even if one or both of the brackets should come loose.

Ensure that the safety cable has a load capacity of 10x the weight of the armature and that the device can not fall farther than 30 cm. You can wrap the safety cable around the truss or light stand several times to ensure the fall is as short as possible. The shorter the fall, the less chance of damage or injury.

Light source
The ERO Motion Heads 4W has powerful LED modules that create an even more powerful effect thanks to a special lens that bundles the beams together. Never look directly into the lens from at close range, as the human eye can't adjust to the sudden intensity of the beam of light this device produces. It won't result in permanent injury, but it can cause temporary blind spots, which may cause disorientation and discomfort.

Cooling
The ERO Motion Heads 4W is cooled by means of various fans that are located in the main housing per moving head. These are activated when the device is turned on. Prevent the fans from getting blocked and check them regularly to ensure they're functioning properly. Any dust or smoke that is drawn in can have a negative effect on how the device functions.

Parts and repair
This product does not include spare parts and can not be repaired by the user. All inspections and overall maintenance should be done by a specialist.

Cleaning and maintenance
Clean the exterior of this device monthly with a dry, or slightly damp microfibre cloth. Ensure that the device is unplugged before cleaning it.

Check if all the screws are intact and secured and tighten or replace them where needed. Check all metal parts of the device for any signs of corrosion. If corrosion is found, the device needs to be checked thoroughly.

DMX lighting troubleshooting

If you have a problem with your DMX light effect, please consult the troubleshooting section for possible solutions. If, after consulting this section, the problem remains unresolved, please contact your dealer for more information and/or help.

This troubleshooting section contains information on how to solve the most common DMX light effect problems, but it does not and cannot cover every eventuality. It is possible that you won't find your problem, cause and solution in this section due to differences between various connecting devices.

Problem	**Possible cause**	**Solution**
The device can not be turned on.	A fuse is blown	Check the fuse to rule out if it is blown or not. If it is blown, replace it with a new fuse of the same type and class.
	Power cable not plugged in	Check if the power cable is properly connected to the device andplugged into an active power socket.
The device is not reacting to DMX signals	Incorrect DMX start address	Check if the device has been set to the correct DMX start address
	DMX controller is on ‘Blackout’	Make sure the ‘Blackout’ function on the DMX controller is not activated
	Make sure the polarity switch on the DMX controller is set correctly	Try to reverse the DMX polarity switch on the DMX controller.
	The device is not reacting, there is no DMX signal indication	Make sure the XLR cables are connected properly and are not defective. Replace if necessary.
The device does not react to sound/music	Incorrect operation mode	Make sure the sound-activated mode has been selected
	The internal microphone sensitivity is too low	Check the microphone sensitivity level and increase it if necessary.
	The speaker is too far away, or is not producing enough low tones	Place the light effect closer to a speaker (or vice versa) and/or increase the low-frequency level. The built-in microphone is not triggered by high tones.
The amount of projected light is minimal	Dirty or dusty optics	Clean the lens and/or other optics
	Dimmer is not completely open	Check if the dimmers on the spot lights themselves or if the master dimmer is completely open.
The DMX signal appears to be interrupted and some devices are flashing or behaving strangely	Damaged/defective cables	Check and replace the DMX cables if necessary.
	Power interference on the DMX signal	Avoid connecting signal cables parallel to power cables
	DMX terminator missing	Close the DMX circle with a DMX terminator

	Signal loss or interference in the DMX circle	Close the DMX circle with a terminator or connect a booster after maximum 32 fixtures.
The device is not reacting to DMX commands	Incorrect DMX channel mode	Check if the device is set to the correct DMX channel mode
The pan and tilt values do not react to DMX commands	Pan/tilt inversion is activated	Check if pan/tilt inversion is activated in the menu
The operation mode can not be changed	The device is in Slave mode	If the device is in Slave mode, it will wait for a master signal unless there is a DMX signal present. Set the device to Master to activate the sound-controlled or automated operation modes.

Technical specifications

- LED moving head system on an electronic beam
- light source: 4x 10 W bright white LEDs
- equipped with projector lens for narrow dispersion angle
- metal housing with plastic moving heads
- LED display with menu buttons
- various operation modes
- automatic mode with 16 programs that are adjustable in speed in 9 steps
- Sound-controlled mode with adjustable sensitivity
- Master/Slave mode (2 slave modes)
- Pan/Tilt inverse option
- DMX control via 6, 12, 14 or 27 channels
- built-in macros for movement and chases with individually adjustable speeds in 6-channel mode
- DMX control via 3-pole XLR
- dispersion angle: 4 degrees per head
- light yield: 83700 lux at 1-metre distance
- separate mounting brackets, including quick couplers
- built-in 35mm stand adapter
- rubber feet on underside for grip during upright operation
- equipped with eyelet for optional safety cable
- fuse: 7AL, 250V (for device only)
- power supply with IEC C13 / 14 inputs and outputs, max. 9A
- 400Hz constant current LED driver
- to be used in environmental temperature: 0 - 40 degrees Celsius
- maximum environmental temperature during regular use: 24 degrees Celsius
- maximum power consumption: 64.1W
- power factor: 0.517
- power consumption: 0.54A
- power supply: 90-240V AC, 50/60 Hz
- dimensions: 800 x 90 x 230 mm

weight: 12.5 kg

Menu functions:

- Blackout function when display is not in use
- Display Invert option
- pan/tilt invert option for all heads
- Test function (to check movement and colour)
- Reset function (restart the device)
- Time register readable
- Firmware Version readable