

AYRA

ERO Micro Spot LED moving head



User manual

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

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Introduction

Thank you for purchasing the ERO Micro Spot. This versatile device is compact in size, but full of technology that will make a statement at your party or event. This user manual offers you all the information you need to get started.

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 Micro Spot 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:

- ERO Micro Spot LED moving head
- mounting bracket + hardware
- safety eyelet
- power cable from IEC C13 to Schuko, 1.5 mm²
- power 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.



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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

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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 from 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).

AYRA

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).*

Guidelines and operation of this device



1. moving head with light output via lens (manually adjustable focus)
2. rubber feet
3. LED display with menu buttons
4. DMX input via 3-pin XLR
5. DMX output via 3-pin XLR
6. power input with fuse holder
7. body ventilator
8. head ventilator

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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 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	Mode	Function
ADDR	DMX address configuration	Address A001 ... A512
CHND	Channel mode selection	1CH/8CH/10CH
RCND	Remote Control mode	Specific addresses available for compatible controllers (RC 1-4 adjustable)
SLND	Slave mode	Master - NAST Slave 1 – SL 1
SHND	Show mode (for sound-activated operation)	SH 1 – Show program 1 SH 2 – Show program 2 SH 3 – Show program 3 SH 4 – Show program 4
AUTO	Automatic mode (speed user-adjustable)	AUT1 – Auto program 1 AUT2 – Auto program 2 AUT3 – Auto program 3 AUT4 – Auto program 4 (Adjust the speed per program by holding down the 'Enter' button and using the Up/Down keys to select a speed between 1 and 9. 1=slow, 9=fast)
SPLC	Split Colour on/off	YES (Split colour on) NO (Split colour off)
PPOS	Pan Position, limited pan range	180 (180-degree pan) 360 (360-degree pan) 540 (540-degree pan)
TPOS	Tilt Position, limited tilt range	70 (70 degrees) 90 (90 degrees) 180 (180 degrees)
SOUN	Sound-controlled mode (activates built-in microphone)	Mode: ON / OFF
SENS	Sound sensitivity	000 – 100: Sensitivity in %
LED	LED Display on/off when not in use	ON/OFF
DISP	Display inversion	Invert display, Idsp-dspl
PAN	Invert Pan (mirror)	NO – do not invert pan YES – invert pan
TILT	Invert tilt (mirror)	NO – do not invert tilt

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		YES – invert tilt
TEST	Test mode	This mode tests all the functions displayed to make sure they are working properly.
HOUR	Time registration	0000 – 9999 usage in hours
VER	Firmware version number	Display of firmware version number (can not be updated by user)
RSET	Reset function	Restart the device (as if the power has been turned off and back on)

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.

RCND: The Remote Control mode is a practical feature which helps addressing multiple fixtures, combined with a special controller which supports this mode.

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. In Slave 1 mode, the device will copy the exact signal directly from the Master.

PLEASE NOTE: When Slave mode is activated, the device will wait for a signal from the Master device. In this 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.

SHND: This mode consists of automatic programs, designed for sound-controlled operation. In sound-controlled mode, the device uses the built-in microphone that can be activated by means of the SOUN setting and adjusted in sensitivity. Any time the microphone detects sound, the device will change movement and/or colour in a way that syncs perfectly with your light show. If no sound is detected, the device will move slowly and change colour gradually until sound is detected again.

AUTO: With this mode, you can select the same automatic programs as in the SHND mode, but they run at an automatic speed. The user can adjust the speed between 1 and 9, where 1 is the slowest and 9 is the fastest speed.

SPLC: This device has a colour wheel with 8 colours (7 colours + open). By activating the Split Colour option, it's possible to mix the colours in between. This way, a figure can have 2 colours, like half red and half white, half purple and half blue, etc. The Split Colour function is available in all modes, as well as via DMX.

PPOS / TPOS: This product is virtually the only one of its kind that allows the user to correct the pan and tilt range. This gives you more control over the freedom of movement of the moving head, should it be positioned near a wall for instance, preventing unnecessary light projection that would otherwise go unnoticed.

The pan range can be set to 540, 360 and 180 degrees. The tilt range can be set to 180, 90 or 70 degrees.

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

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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 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 to make the motors turn in the opposite direction. This function is available for all modes.

TEST: Should the device need cleaning or maintenance, this function can be used to test one or more devices simultaneously. The device plays a continuous program 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 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.

VERS: This function shows the device's current firmware version number. The user can not be updated by the user.

RSET: By selecting this function, you can restart the device completely without having to physically unplug it and plug it back in.

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, choose one of the operating modes where the device is not dependent on external factors (such as a sound-controlled signals or the presence of noise). Choose one of the basic programs and set the options such as the switching speed or the intensity correction, if desired.

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

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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.

The ERO Micro Spot can function in conjunction with the ALO Micro Scan because they share exactly the same operating programs. Moving heads and scanners of this type can work together seamlessly.

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.

1CH mode:

CH	Function	Value
1	Sound-controlled show modes	000-007 No function (Blackout) 008-067 Show 1 068-127 Show 2 128-187 Show 3 188-247 Show 4 248-255 Random show

8CH mode:

CH	Function	Value
1	Pan position min - max	000-255
2	Tilt position min - max	000-255
3	Colour wheel PLEASE NOTE: the SPLC colours will not work if SPLC is not activated.	000-007 Open white 008-015: SPLC 1 016-023: Red 024-031: SPLC2 032-039: Orange 040-047: SPLC3 048-055: Yellow 056-063: SPLC4 064-071: Green 072-079: SPLC5 080-087: Dark blue 088-095: SPLC6 096-103: Light blue 104-111: SPLC7 112-127: Magenta 128-255: Rainbow effect, slow - fast
4	Gobo wheel	000-007: Open 008-015: Gobo 1 016-023: Gobo 2 024-031: Gobo 3 032-039: Gobo 4 040-047: Gobo 5 048-055: Gobo 6 056-063: Gobo 7 064-071: Open shake 072-079: Gobo 1 shake 080-087: Gobo 2 shake

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5	Shutter	088-095: Gobo3 shake 096-103: Gobo4 shake 104-111: Gobo 5 shake 112-119: Gobo 6 shake 120-127 Gobo 7 shake 128-255 Gobo scroll slow - fast 000-007 Blackout 008-015: Open 016-131 Stroboscope mode, slow - fast 132-139: Open 140-181: Shutter slow open, close fast, slow - fast 182-189: Open 190-231: Shutter slow close, open fast, slow-fast 232-239: Open 240-247: Random strobe 248-255: Open 000-255 0-100%
6	LED dimmer 0-0100%	
7	Movement speed	000-255 fast movement – slow movement
8	Various functions	000-199 No function 200-209 Reset after 3 seconds within this value 210-239 No function 240-255 Sound-controlled mode

10CH mode:

CH	Function	Value
1	Pan position min - max	000-255
2	Pan fine position min-max	000-255
3	Tilt position min - max	000-255
4	Tilt position min - max	000-255
5	Colour wheel	See 8CH mode, CH3
	PLEASE NOTE: the SPLC colours will not work if SPLC is not activated.	
6	Gobo wheel	See 8CH mode, CH4
7	Shutter	See 8CH mode, CH5
8	LED dimmer 0-0100%	000-255 0-100%
9	Movement speed	000-255 fast movement – slow movement
10	Various functions	000-199 No function 200-209 Reset after 3 seconds within this value 210-239 No function 240-255 Sound-controlled mode

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Installation and connection requirements

Now that you know how the ERO Micro Spot 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 Micro Spot in an upright position, make sure it's on a flat, stable surface like a table, DJ booth or bar. The device is equipped with rubber feet that grip the surface underneath it.

Suspended use (brackets)

Should you want to suspend the ERO Micro Spot, you can use the mounting bracket attached to the top of the device. Mounting material is included.

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 Micro Spot to a wall, ceiling, or beam is not included. Contact a specialist if you're not sure which hardware is required for your situation. A wooden beam and stone wall require different mounting methods.

When suspending the ERO Micro Spot, you will need to attach a safety cable to the armature. This is not included, but is available at your local dealer. The ERO Micro Spot is supplied with an eye bolt which can be installed on the bottom of the device. A safety cable can be attached to this eyelet. 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 Micro Spot contains 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 Micro Spot is cooled by fans that are installed in the housing. They are activated when the device turns on. Make sure the fan or ventilation slots are not blocked and regularly check that they are functioning normally. Be aware that should the fan suck in substances like dust, smoke and moisture, this may impair its operation.

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.

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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.

Manually-adjustable focus

Depending on the application and distance, the projected beams may not be in focus. For that reason, the ERO Micro Spot is equipped with a manually adjustable focus.

Preferably, the focus should be adjusted when the device is turned off, or carefully while the device is projecting a fixed beam of light and not moving.

Adjust the focus by turning the projection lens clockwise or counter-clockwise. The projected beam will appear sharper.



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DMX lighting troubleshooting

If you have a problem with your device, 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 Power cable not plugged in	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. Check if the power cable is properly connected to the device and plugged into an active power socket.
The device is not reacting to DMX signals	Incorrect DMX start address DMX controller is on 'Blackout' Make sure the polarity switch on the DMX controller is set correctly The device is not reacting, there is no DMX signal indication	Check if the device has been set to the correct DMX start address Make sure the 'Blackout' function on the DMX controller is not activated Try to reverse the DMX polarity switch on the DMX controller. 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 The internal microphone sensitivity is too low The speaker is too far away, or is not producing enough low tones	Make sure the sound-activated mode has been selected Check the microphone sensitivity level and increase it if necessary. 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 Dimmer is not completely open	Clean the lens and/or other optics Check if the dimmers on the spotlights 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 Power interference on the DMX signal DMX terminator missing	Check and replace the DMX cables if necessary. Avoid connecting signal cables parallel to power cables Close the DMX circle with a DMX terminator

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The operation mode can not be changed	Signal loss or interference in the DMX circle The device is in Slave mode	Close the DMX circle with a terminator or connect a booster after maximum 32 fixtures. 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.
Movement is choppy	Movement speed is too slow	In some cases, if the programmed movement speed is too slow, the moving head will move step by step. In DMX mode, you can correct this to a certain extent by adjusting the pan/tilt speed of one device and programming the rest to follow.
Pan/tilt range is minimal	The pan/tilt range needs to be reset	Check to make sure the pan/tilt range is set properly and adjust it if necessary.
Pan and/or tilt functions in reverse	Pan or tilt is set to invert	Check to rule out whether the pan or tilt is set to invert and turn it off if necessary.



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Technical specifications

Specifications:

- compact LED moving head
- metal housing with plastic covers
- light source: 10 W CREE white LED
- LED display with menu buttons
- various operation modes
- automatic mode with 4 programs that are adjustable in speed in 9 steps
- sound-controlled mode with adjustable sensitivity
- master/slave option
- pan/tilt inverse option
- pan/tilt limit option
- DMX control via 1, 8 or 10 channels
- colour wheel: 7 colours + open + rainbow effect
- gobo wheel: 7 gobos + open + shake effect
- beam angle: 12 degrees
- light yield: 6500 lux @ 1m distance
- manually-adjustable focus
- separate mounting bracket to attach to underside
- separate safety eyelet to attach to underside
- IEC C14 power input
- 3-pin XLR input and output for DMX
- fuse: F3AL 250V
- 400Hz constant current LED driver
- to be used in environmental temperature: 0 - 40 degrees Celsius
- housing temperature under normal conditions: 60 degrees Celsius
- power consumption: 24.4 W
- power consumption: 0.226A
- power factor: 0.457
- power supply: 90-240V AC, 50/60 Hz
- dimensions: 170 x 150 x 270 mm
- weight: 3.1 kg

Menu functions:

- 'Blackout' function when display is not in use
- Pan Range correction: 180 / 360 / 540 degrees
- Tilt Range correction: 70/ 90 / 180 degrees
- Display Invert option
- Pan/Tilt Invert option for all heads
- Test function (to check movement and colour)
- Split Colour function
- Reset function (restart the device)
- Time Register readable
- Firmware Version readable