

AURA

ERO 075 LED Spot Moving Head



User Manual

De informatie in deze gebruiksaanwijzing kan gewijzigd worden zonder verdere notificatie.

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Introduction

Thank you for purchasing the ERO 075 moving head. This compact and versatile device is packed full of the latest technology and will add an extra special element to any occasion. This manual provides all the information you need to know about the product before you start using it.

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 075 does not function properly, or if you have any issues while operating it, please remove the plug from the power socket and contact your retailer for assistance.

Box contents:

- ERO 075 LED moving head
- suspension bracket + mounting hardware
- safety-eyebolt
- power cable IEC C13 to Schuko, 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 retailer 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 the 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.

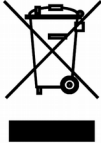


Storage and transport:

- 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 attached. 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:

	<p>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.</p>
	<p>CE: The CE logo indicates that this product meets the European norms and requirements to which it must legally conform.</p>
	<p>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).</p>

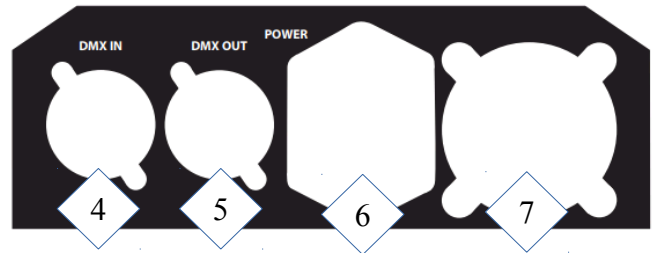
AYRA

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).*

Overviw and use of this Device



1. Moving head with light output via lens
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-fan

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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 start-up, the device's display will indicate its start-up status and can't be used. The moving head may vibrate as it calibrates the stepper motors. 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.

The ERO 075 has a colour display for access to the various operating modes, as well as user adjustable settings.

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.

CONFIRMING OPERATING MODES:

Please note: If you want to use the device in automatic or sound-controlled mode, first confirm the action by adjusting the value. Next, use the 'Up' and 'Down' arrows to navigate to the 'X' at the top of the display and press 'Enter' to return to the main menu. Only then will your selected actions be executed.

Confirming with 'Enter' and returning to the main menu via the 'Menu' button will only result in returning to the main menu, without saving and executing your desired actions.

The menu is divided into segments and contains the following options and functions:

ADDR:

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

As soon the DMX address is encircled in blue, it can be changed by pressing 'Enter' and using the navigation buttons to enter the correct address. Press 'Enter' to confirm or press 'Menu' to cancel.

This menu also contains 'prev' and 'next' functions. These are convenient when you're working with multiple devices. When you press 'prev' or 'next', 14 channels are moved forwards or backwards so the DMX index can be automatically adjusted. This way, you're able to link device 1 with channel 1, device 2 with channel 15, etc.

The 'CHAN' function is normally used to access another DMX channel mode. This product, however, supports no DMX modes other than the 14-channel DMX mode.

MODE:

This menu allows you to fully customise your moving head's operating mode using the following functions and values:

- Auto mode: Auto, Sound, Scene
- Scene mode: Auto, 1-10
- M/S choose: Master, Slave, Scene
- X/Y speed: 000-009
- Gobo speed: 000-009
- Color speed: 000-009
- Gobo rot. speed: 000-009
- Prism speed: 000-009
- Strobe speed: 000-009
- Position: Auto, 01-05

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DISP:

The 'DISP' mode lets you change the various display settings:

- Language: Chinese, English
- Screen saver: Mode 1-3
- Screen rotation: Forward, Auto, Reverse
- DMX indication: Mode 1-3
- Screen light: 000-010

SCENE:

The 'Scene' mode allows you to activate fixed positions and functions of the moving head in order to create a static light image that can be recalled at any time. This is a practical feature for situations that require static but accurate lighting.

There are a total of 10 customisable scenes, which can be used in play mode to activate a sound-controlled programme that alternates between scenes, depending on the time set per scene.

Naturally, it's also possible to continuously and statically highlight a specific object or point onstage.

The 'SCENE' mode allows control over:

- Scene-selection
- Scene-time (in seconds)
- Pan/Pan fine
- Tilt/Tilt fine
- Pan/Tilt speed
- Dimmer (255 = fully open)
- Strobe (255 = fully open)
- Colour
- Gobo
- Gobo rotation
- Prisma
- Special mode (e.g. sound-controlled mode)
- Focus
- Reset

All changes made to these functions are instantly applied so that each function can be aligned perfectly with the next one to achieve the desired effect(s).

STAT:

The 'STAT' mode displays a number of relevant statistics regarding the moving head such as used firmware, LED operating times, total operating time, possible error logs, etc.

This makes planning maintenance intervals and troubleshooting problems even easier.

In the overview you'll find:

- Step motor info (current values)
- Error log
- Fixture status
- Firmware version
- LED operating time
- Total operating time

ADVA:

The Advanced mode contains more additional functionalities that are usually exclusively used by product specialists.

- Pan invert (invert horizontal movement)
- Tilt invert (invert vertical movement)
- Pan / Tilt auto-correction (automatic correction in case of sudden movement)
- Pan offset (motor correction of starting point for horizontal movement)
- Tilt offset (motor correction of starting point for vertical movement)
- Data hold (remember the last received signal in case of signal loss)
- Reset (resets the device after confirmation)

Operating Modes

The following overview clearly explains the different operating modes, supported by the aforementioned 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 wait in its last triggered position. 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.

Always ensure that the first device in your circuit is set as the Master device and that it is executing the desired programme. Any other devices can subsequently be set to Slave mode one by one, so they shall receive the commands from and emulate the Master device's programme.

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.

Using the 14 DMX-channels, it's possible to control the functions of the moving head via an external lighting desk to create and trigger even more complex programmes that allow multiple (different) armatures to work together.

This device can be set to various channel modes so the channel layout, which is shown below, corresponds

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perfectly with your DMX circle layout, as well as with the functions you will be using.

14CH mode:

CH	Function	Value
1	Pan-position min-max	000-255
2	Pan-position fine min-max	000-255
3	Tilt-position min-max	000-255
4	Tilt-position fine min-max	000-255
5	Pan/tilt speed, fast-slow	000-255
6	Dimmer 0-100%	000-255
7.	Shutter/Strobe	000-007 Blackout 008-015 Open 016-131 Strobe, slow-fast 132-139 Open 140-181 Pulse, slow open, fast close 182-189 Open 190-231 Pulse, fast open, slow close 232-239 Open 240-247 Random Strobe 248-255 Open
8	Colour	000-015 Open 016-031 Colour 1 032-047 Colour 2 048-063 Colour 3 064-079 Colour 4 080-095 Colour 5 096-101 Colour 6 102-111 Colour 7 112-127 Colour 8 128-191 Rainbow effect clockwise fast-slow 192-255 Rainbow effect counter-clockwise slow-fast
9	Gobo	000-007 Open 008-015 Gobo 1 016-023 Gobo 2 024-031 Gobo 3 032-039 Gobo 4 040-047 Gobo 5 048-063 Gobo 6 064-073 Gobo 1 shake 074-082 Gobo 2 shake 083-091 Gobo 3 shake 092-100 Gobo 4 shake 101-109 Gobo 5 shake 110- 127 Gobo 6 shake 128-129 Gobo scroll effect, clockwise, fast-slow 190-193 Stop
10	Gobo rotation	194-255 Gobo scroll effect, anti-clockwise, slow-fast 000-127 Gobo index 128-189 Rotation clockwise, fast-slow 190-193 Stop
11	Focus	194-255 Rotation anti-clockwise, slow-fast 000-255

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12	Prisma on/off	000-255
13	Auto mode	001-255 auto mode
14	Reset	Hold value 255 until reset

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Installation and connection Requirements

Now that you know how the ERO 075 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

If you want to use the ERO 075 in an upright position, ensure that it is placed on a stable surface like a table, DJ booth or T-bar. The ERO 075 is equipped with rubber feet that grip suitable surfaces.

Suspended use (brackets)

When you want to suspend the ERO 075, attach the supplied mounting bracket to the top of this device and use the included mounting materials.

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 075 to the 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.

Should you want to suspend the ERO 075, you will need to attach a safety cable to the armature. This is not included, but is available at your local dealer. The ERO 075 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 075 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 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 damage, but it can cause temporary blind spots, which may cause disorientation and discomfort.

Cooling

The ERO 075 is cooled by fans that are installed in the head and in the housing. These will be activated when the device is turned on. Make sure the fans and vents are not blocked and regularly check that they are functioning normally. Be aware that should the fans suck in substances like dust, smoke and moisture, this may impair their operation and shorten the life of the device.

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

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parts of the device for any signs of corrosion. If corrosion is found, the device needs to be checked thoroughly.

DMX terminator

In DMX mode, it's standard practice to place a terminator at the end of a DMX circuit. A DMX terminator is an electrical termination consisting of a 120 Ohm resistor, that's placed between the second and third pin to eliminate possible data reflections. Data reflections can cause strange behaviour in DMX-controlled devices.

DMX-terminators are sold separately but you may yourself decide to solder a 120 Ohm resistor between the second and third pin of a standard male XLR connector.

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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 and plugged 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 set to '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 spotlights themselves and/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

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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.
Movements are somewhat shaky	Movements have been programmed to too slow a pace	Slow-paced programmed movements may cause the moving head to move in incremental motor steps. This can be corrected to a certain degree by adjusting, per device, the Pan / Tilt speed in DMX mode.
Pan/Tilt reach is minimal	Pan/Tilt values require resetting	Check if pan or tilt values are set accordingly and correct these, if necessary.
Pan and/or tilt work in reverse	Pan or tilt inversion is set	Check pan or tilt inversion settings and switch them on or off as required.

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Technical Specifications

Specifications:

- Compact LED moving head
- Metal housing with plastic covers
- Light source: 75W white LED
- Colour display with menu buttons
- Various operating modes
- Automatic mode with adjustable programmes and speed settings
- 10 Custom scenes to store, access and play as a programme
- Sound-controlled mode with adjustable sensitivity
- Master/Slave mode
- Pan/Tilt inverse option
- Pan/Tilt limit option
- DMX operation via 14 channels
- Colour wheel: 8 colours + open + rainbow effect
- Gobo wheels: 6 rotating gobos + open + shake effect
- Beam angle: 11 degrees
- Electronically adjustable focus
- Separate suspension bracket, to be mounted to the underside
- Separate safety eye-bolt, to be mounted to the underside
- IEC C14 power input
- 3-Pin XLR input and output for DMX
- Fuse: T3.15AL 250V
- To be used in environmental temperature: 0 - 40 degrees Celsius
- Housing temperature during normal use: 38 degrees Celsius
- Maximum power consumption: 105 watts
- Power supply: 110-240V AC, 50 / 60 Hz
- Power factor: 0,6
- Dimensions: 217 x 340 x 148 mm
- Weight: 4,65 kg

Menu functions:

- Blackout function when display is not in use
- Display Invert option
- Pan/Tilt Invert option
- Reset function (restart the device), can also be triggered via DMX
- Time Register readable
- Firmware version readable
- Start channel addressing with built-in ascend / descend (addressing per fixture instead of per channel)
- Automatic modes with various adjustable settings
- Option to play user-programmed scenes
- Option to set a display screensaver
- Option to indicate DMX status via display
- Adjustable screen intensity / brightness
- Automatic Pan / Tilt correction on / off
- Adjustable Pan / Tilt offset per fixture
- Data hold in case of DMX signal loss on / off
- Option to carry out a factory reset

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