

AURA

Flash 30 LED / Flash 60 LED LED stroboscope



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: 02-02-2017 RV Revision date and author's initials: -

Introduction

Thank you for purchasing the Flash 30 or Flash 60 LED. This powerful armature is equipped with strong, bright white 5050 SMD LEDs that yield an enormous amount of light. This device is designed to generate flashing pulses of light, but can also be used statically thanks to advanced technology.

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 Flash 30 / 60 LED 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 Flash 30 LED or Flash 60 LED stroboscope
- 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.

A large, stylized, light gray logo consisting of the letters 'AYRA' in a bold, blocky, sans-serif font. The letters are interconnected, with the 'Y' and 'R' having unique, angular shapes. The logo is centered horizontally and occupies a significant portion of the page width.

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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.



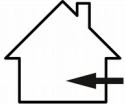
Housing

- 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.

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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).

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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. light output with transparent protective cover
2. tightening knob mounting bracket
3. LED display with menu buttons
4. microphone for sound-controlled operation modes
5. 3-pin XLR DMX input
6. 3-pin XLR DMX output
7. power output for linking multiple armatures (IEC C13)
8. power input with built-in fuse holder (IEC C14)
9. safety eyelet for optional safety cable
10. mounting bracket
11. ventilation slots

Please note: The image on this user manual shows the Flash 60 LED stroboscope. The Flash 30 LED has the same connections and functions, but they are partly located in a different place.

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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 / A001	DMX address configuration	Address A001 ... A512
SLAV	Slave mode	SLAV
F-.00	Standalone stroboscope mode	Stroboscope speed: F-.00 – F-.99 F-.00 = static mode
D-.00	Standalone dimmer mode	Dimmer level: D-.00 – D-.99 D-.00 = dimmer 0%
SU00	Sound-controlled mode + sensitivity	Adjustable sensitivity: SU00 - SU99

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.

SLAV: 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-pole XLR cables. The only difference is that the first device in the chain does not receive DMX input.

F-.00: This function allows you to set the speed of the stroboscope while the device is in standalone mode. It ranges from 00 to 99 where 00 is static (full-on) mode and 01 to 99 are the increasing flash speeds.

D-.00: This function is to set the intensity of the dimmer while the device is in standalone automatic mode. It can be combined with the stroboscope speed which ranges from 00 to 99, 00 being completely off.

SU00: 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 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.

In sound-controlled mode, the Flash 30 / 60 LED will flash three times in a row at full output at every trigger (on the beat).

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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, (D-.00 and F-.00) the device is set to a fixed speed and will function according to the preset parameters. The device does not require input from the built-in microphone, master-slave signals or DMX.

By setting the flashing speed to static (value 00), you can also use the Flash 30 / 60 LED as a static projector to temporarily light up certain surfaces.

Sound:

The sound-controlled mode uses an internal microphone which detects the music and flashes three times at full intensity on the beat. This ensures the light effect syncs perfectly with your music.

When no music is detected due to a break in the music or the presence of only high tones, the device will not flash.

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.

In case of the FLASH 30 / 60 LED, mixing these units in master or slave mode is possible as they share the same channel values and controls.

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.

2CH mode:

CH	Function	Values
CH1	Dimmer: 0 - 100%	000-255: 0-100%
CH2	Stroboscope speed slow – fast + sound-controlled option	000-007: Stroboscope blackout 008-247: Stroboscope mode slow - fast 248-255: Sound-controlled mode

Power supply

The Flash 30 / 60 LED 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 Flash 30 / 60 LED have a power capacity of 10A, subtracted by the maximum power consumption of the device. With a small built-in safety margin, the output on the Flash 30 / 60 LED should be fed with a maximum of 9 A.

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

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Bear in mind that the installed fuse in the Flash 30 / 60 LED is designed to only protect the device itself. The power output is not protected.

Installation and connection requirements

Now that you know how the Flash 30 / 60 LED 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

The Flash 30 / 60 LED is not suitable for use in an upright position, unless the mounting bracket is attached to a stable surface like a floor stand or a metal foot with sturdy materials.

Suspended use (bracket)

If you want to suspend the Flash 30 / 60 LED, use the mounting bracket that has already been attached to the device. Use the tightening knobs to adjust the bracket.

The Flash 30 / 60 armature is already equipped with a hanging bracket and contains holes to mount a standard G-hook or coupler. 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 Flash 30 / 60 LED 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 Flash 30 / 60 LED, you will need to attach a safety cable to the armature. This is not included, but is available at your local dealer. The Flash 30 / 60 LED 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 Flash 30 / 60 LED 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 damage, but it can cause temporary blind spots, which may cause disorientation and discomfort.

Cooling

The Flash 30 / 60 LED is not equipped with active cooling by means of fans. Cooling the light source is done by means of a passive cooling block and ventilation slots in the housing.

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.

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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 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

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Signal loss or interference in the DMX circle

Close the DMX circle with a terminator or connect a booster after maximum 32 fixtures.

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Technical specifications

General technical specifications for the Flash 30 LED / Flash 60 LED:

- compact LED stroboscope projector
- light source: 5050 SMD LED in cluster
- equipped with reflector technology
- transparent plastic cover
- all-metal housing
- to be used as stroboscope, blinder and static projector
- equipped with suspension bracket
- various operation modes
- LED display with menu buttons
- automatic mode with adjustable flash speed (also static) and dimmer
- Sound-controlled mode with adjustable sensitivity
- Master/Slave option
- DMX control via 2 channels
- equipped with eyelet for optional safety cable
- power supply with link function (IEC C13/C14) max. 9 A
- fuse: F3AL, 250V
- power supply: 90-240V AC, 50/60 Hz
- to be used in environmental temperature: 0 - 40 degrees Celsius

Specifications which differ per model:

Feature	Flash 30 LED	Flash 60 LED
Number of LEDs	60	132
Maximum power consumption	18.4 W	26.2 W
Power factor	0.488	0.508
Housing temperature during normal use	35.5 °C	29.8 °C
Power consumption	0.16 A	0.24 A

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