

# AYRA

**OSO COM 6**

**DMX controller**



**User manual**

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# Safety instructions



## WARNING!



Always keep this device away from moisture and rain! Hazardous electrical shocks may occur!



## WARNING!



Only connect this device to a matching power outlet. This device is intended to work on a specified AC currency. Connecting this device to power outlets with other voltages may result in permanent damage and possible hazardous situations, such as fire or electrical shocks!



## WARNING!



Be careful with every operation of this device. Touching live wires inside and outside the unit may cause hazardous electrical shocks!

This unit must be operated by, or under the supervision of an adult. This device is not suitable for children.

Every person involved with the installation, operation and maintenance of this device has to:

- Be qualified
- Follow the instructions of this manual
- Make sure there is no damage caused by transport. If the device seems damaged from the outside, do not use it and contact your dealer for more information and consultation.
- To make sure the device maintains in perfect condition and for safe operation, it is necessary for the user to follow the instructions and warning notes of this user manual.
- Damage caused by improper use or modifications to the device are not covered by warranty.
- This device does not have any user-serviceable parts inside. Servicing of this device needs to be done by qualified technicians.

### Important notes regarding safety and health:

- Never let the power cord come in contact with other cables. Handle the power cord and all connectors with the mains with caution.
- Never remove any warning or informative labels from the unit
- The ground contact always needs to be connected. Do not cover or remove the ground contact.
- Never leave cables lying around
- Do not open the device and do not modify any hard- or software of this unit.
- Do not insert this object into air vents.
- Do not connect this device to a dimmerpack.
- Do not switch the system on and off frequently as this will reduce the lifespan of the device.
- Do not drive the inputs of the fixture with a signal larger than required to work at full performance.
- Only use this device indoor, avoid contact with water, moist or other liquids. Do not place items filled with liquids on top of the unit.

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- Avoid nearby flames or heat sources, do not place this device near flammable liquids, gas or flammable items.
- Always disconnect the device when it is not in use for a longer period or time, when servicing is needed or when the device needs cleaning.
- Only handle the power cord by its connectors. Never pull the cable to remove a connector from its socket, as this could lead to damage and electrical shocks.
- Always operate this device with a stable AC current.
- Always operate this device with the AC ground wire connected to the electrical system's ground.
- Never use other types of cables than specified in the manual, do not use defective or bad functioning cables. Contact your dealer when the included or required cables do not work properly with this device.
- When the device has been exposed to large temperature differences (for example, transport from outdoor to indoor), do not connect the device immediately. Do not activate the unit until it has reached room temperature, as moist might build up inside the unit, which may cause shortcuts and/or electrical shocks.

**Guidelines and types of use:**

- This device is intended to be used by professionals on stage, in theaters, clubs and other equal venues.
- This device is not suitable for children and always needs to be operated by an adult.
- Only use the device when the environment is suitable and will not cause any damage. Do not use the product in moist or dusty environments, or where long-term damage may occur such as:
  - indoor swimming pools where chlorine is used.
  - Beaches, where sand and salt are present.
  - Outdoor, without roof protection
  - Indoor areas where intense heat sources are present or where the temperature exceeds levels which are comfortable for humans.
- Only use the included power adapter and only connect the device to a suitable power outlet with the correct output voltage. Connecting the device to a power outlet with the wrong type of voltage or using the product with a wrong type of power supply may cause permanent damage to the device.
- Avoid shocks and collision during use and transport. Do not transport the device while in use. Avoid brute force during the installation and operation of this device.
- Familiarize yourself with the functions of the device before use. Do not allow operation of the device by unskilled or unqualified people.
- Use of the device in other ways than described in this user manual may cause damage and injury. Ayra can not be held responsible for any damage or injury caused by improper use.

**Storage and transport:**

- This device is intended for mobile use. When transported, use the original packaging of the product, or a fitting flightcase, preferably filled with foam.
- This device is not intended for permanent use. Operation breaks will ensure that the lifespan of the device remains unchanged.
- If the device is not used for a longer period of time, disconnect it from its power source and store it in its original packaging, or in a fitting flightcase.
- Store the device indoor, dry and do not expose the device to extreme temperature differences.

**Housing:**

- Inspect the housing of the device frequently. Severe dents, cracks and missing screws should be avoided at all costs. Do not use the device when the housing is not in optimal condition. Contact your dealer or a skilled technician when in doubt about the state of the device
- Check the fixture and screws for corrosion. Corrosion should not be present on the fixture. Contact your dealer or a skilled technician when corrosion is found on the fixture
- Every power or signal chassis/connector should be mounted tightly. Do not use the device when connectors are loose.
- Do not use the power cord when the cores are visible. Contact your dealer for a replacement if needed.
- Avoid the buildup of dust and dirt. Clean the exterior of the fixture every month with a dry or damp cloth. When using the device intensively, the cleaning frequency needs to be increased.

# Box contents

## Box contents

1x OSO COM 6 controller  
1x power supply to Schuko  
1x power supply to UK plug

## Unit and accessory inspection

- Always check the unit, box and accessories for possible damage before use. If you suspect that something is wrong with the unit, do not connect it to a power source! When you suspect that your unit is broken or damaged, contact your local dealer or a certified technician to inspect the unit.
- If any of the parts that should be included is missing, contact your local dealer for help.
- If the box appears severely damaged, soaked with liquid or ripped apart, do not unpack the product and contact your local dealer for help and more information.
- Always preserve the original box and packaging materials as long as the warranty period is active. This way, the device can be transported for repair and inspection safely.

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# General use

## DMX channels

This 6-channel DMX controller is suitable for simple venues where DMX-controlled lighting is only controlled with several DMX-channels. The OSO COM 6 is mostly used for controlling RGB LED fixtures, fog machines, special effects and simple static stage lighting.

Always make sure that your connected DMX device requires not more than 6 DMX-channels. When connecting devices that require more channels, it might be possible that some functions can not be controlled. It is also possible to give multiple devices the same starting address, or to connect multiple DMX-controlled devices that require 6 or less channels when adding up the used DMX channels.

## Sliders/faders

The unit contains a slider per channel. Each slider provides a signal between 0 and 255 (0-100%). Please check the product manual of the connected device which channel and value triggers which function. For static light (such as parcans, connected to a DMX dimming device), each channel can be controlled between 0 and 100% intensity.

Also make sure that the selected starting address of your connected device is set properly. When you select DMX starting address 2 for a 6-channel device, there is a possibility that not all functions can be triggered.

## Master fader

The unit is equipped with a master fader (slider). This unit makes it possible to control the overall intensity from 0 to 100% evenly for all channels.

For example, when the value of every channel is set to value 255 (100%), the master fader can control the group of channels and evenly bring down the intensity. This only works for static lighting (intensity values). When a normal channel is set to 50% intensity, the master slider only increases or decreases the value from 0 to 50% evenly.

When using the master slider in combination with intelligent behavior of DMX-lighting (such as movement, gobo change, color change, macros or strobe, this function may cause strange response from your connected DMX-lighting. Please leave the master slider to 100% intensity when you only want to change the value of the normal channels independently from 0 to 255.

### Works with the master-slider:

- Static DMX dimmer (e.g. for parcans, spotlights, theatre lights)
- Static DMX RGB LED devices (e.g. LED-parcans, LED-bars, LED-projectors)
- 1-channel fog machines (output 0-100%)
- Special effects (such as DMX controlled confetti shooters)
- DMX switchpacks (which will activate a connected device at 50% intensity or above)

### Might not work properly with the master slider:

- (LED) DMX scanners
- (LED) DMX movingheads
- (LED) DMX lighting effects
- Static DMX RGB LED devices with strobe, master dimmer and macro functions (e.g. LED-parcans, LED-bars, LED-projectors)
- Any other DMX-controlled device with intelligent behavior (such as movement, gobo change, color change, macros or strobe)

## Power supply

A power supply for direct connection to a wall outlet is provided (230V AC, 50 Hz). Please check carefully if your wall outlet is suitable for the voltage requirements of this unit.

The included power supply transforms the currency to a 9V DC voltage.

It is possible to use a 9V battery as a power supply. To connect a 9V battery, please remove the lid on the rear of the controller with a suitable screwdriver. Behind the lid you will find connection terminals to connect your battery and to store it safely inside the unit.

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When the battery is connected and inserted properly, the lid can be placed back and tightened with the supplied screws.

**NOTE:** Please remove the battery when the unit will not be used for a longer period of time.

### **ON/OFF switch and Power LED**

Please note that this device is equipped with an on/off switch. When the unit is activated, the Power LED indicator on top of the unit will light up.

### **DMX output**

This device uses a female 3-pin XLR connector for the distribution of the DMX signal. Please note that a small group of devices might not work properly with this device or might have a different connector.

1. Martin protocol: Old lighting effects from the brand Martin might use a different control protocol, where the data pins of the controller might be inverted. This can be solved by making an adapter cable which switches the data pins.
2. 5-pin DMX devices: Some modern, high-class intelligent DMX lighting devices might work with 5-pin XLR connectors. Adapter cables from 3-pin to 5-pin connectors can be purchased at your local dealer/selling point.

### **Mounting brackets**

The unit is equipped with mounting brackets, which makes proper installation in a desk, wall or shelf possible. Please measure carefully and pay attention to the position of the connectors when installing this product in such an environment. Use plastic rings to prevent scratches on the unit from screws and/or bolts.

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# DMX lighting troubleshooting

If you have any problems with DMX lighting, consult this troubleshooting section to solve any difficulties with your product. If this troubleshooting section does not solve your problem, contact your dealer for more information and help.

This troubleshooting section contains the most frequent problems and is not a complete collection of possible faults, defects and solutions. The troubleshooting section applies for DMX controllers, DMX cabling and DMX lighting fixtures. It is possible that not all described problems, causes and solutions apply to your situation as product details may vary from product to product.

Problem	Possible Cause	Solution
The fixture does not activate itself	Blown fuse	Check the fuse compartment for blown fuses and replace it if necessary.
	No power cable plugged in	Plug in the power supply to a matching power outlet
	Power switch is not in the ON position	Turn on the device by switching the ON/OFF switch to the ON position, if available
The fixture does not respond to DMX signals	Wrong DMX address	Set the DMX address to the right value
	DMX controller blackout function activated	Deactivate the blackout function of your DMX controller
	Faulty positioning of the DMX polarity switch on the controller	flip the polarity switch on your DMX controller
	No response or DMX activity signal LEDs active	Check your DMX cables for possible connection breaks and replace them if necessary.
The fixture does not respond to sound	Wrong working mode selected.	Check if the sound activated mode of the fixture is activated.
	Microphone sensitivity level is set too low	Increase the microphone sensitivity of the built-in microphone
	Speaker placed too far away or lack of bass	Place your lighting effect closer to your speakers (or vice versa) and/or increase low frequency volumes. The microphone will not be triggered with high pitched sounds.
The beam output is very low	Dirty/dusty optics	Clean the lens and/or other optics with a dry or damp cloth
	Dimmer is not set to full output	Set all dimmer levels to 100% on your DMX console
Sometimes the DMX signal is lost and/or some fixtures are flickering / behaving odd sometimes	Faulty/broken DMX cables	Check your DMX cables for possible connection breaks and replace them if necessary.
	Power cable interference on your	Avoid installing the DMX and

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	DMX signal	(high) power cables parallel to each other.
	No DMX terminator	Apply a DMX terminator at the end of your DMX-chain
	Signal loss or distortion in DMX values	Apply a DMX booster in your DMX chain after 32 fixtures or less. After a maximum of 32 fixtures the DMX signal needs to be refreshed.
Moving parts are not functioning well, values do not match and/or rattling sounds are noticed	Faulty stepping motor positioning	Possible value loss of stepping motors. Activate the reset function, or unplug the power supply and plug it back in to activate the reset program. This will reset all values to the original 0-point.
The fixture does not respond fast enough to the set speed on my DMX controller	Moving parts can not keep up with the set speed	Decrease the chase speed of your DMX controller, as the stepping motors of your fixture need some time to move from one point to another.
The fixture does not respond to all DMX-channels	Wrong DMX channel mode	Check the DMX channel mode of the fixture. If the wrong value is set, change the channel mode to a different setting and try again.

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# Technical specifications

**Type:** OSO COM 6

6-channel DMX controller with master slider

- Power input: 9V DC, 100mA min.
- DMX output: 3-pin female XLR connector
- battery type: 9V PP3
- power adapter included (one to Schuko, one to UK plug)
- dimensions: 180 x 135 x 55 mm
- weight: approx. 0.800 kg

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