

ALURA

ALO 030 MKII

30 Watt DMX LED scanner



User manual

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.
 - 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 theatres, 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.
- Familiarise 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 does not take responsibility 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.

Fuses:

- The main fuse of this device is to be found on the rear of the device. In most cases, directly next to the power inlet.
- Only replace a fuse for a new one with the same type and rating! Do not use a fuse with a higher or lower rating.
- Do not bridge the fuse with electrical wires, aluminum foil, as the fuse is used for protection against electrical shocks and short circuit.
- Always mount the fuse cover back to the fuse compartment.

Box contents

Box contents

1x ALO 030 fixture
1x power cable

Unit and accessory inspection

- Always use the supplied power cable to connect the unit to a power supply. If the cable appears broken or has visible damage, do not use it.
- If the unit is not going to be used for a longer period of time, disconnect it from the power supply and store it in a dust-free environment.
- Always check the unit 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.

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Device overview



1. Moving mirror
2. Beam output with manual focus
3. Standing/hanging adjustable bracket
4. Ventilation slots
5. IEC Power inlet with integrated fuse holder
6. IEC Power outlet (used to link several fixtures)
7. Control panel display with MENU, UP and DOWN buttons
8. Sound sensitivity potentiometer
9. Safety eye, for optional safety cable
10. Built-in microphone for sound active mode
11. DMX input (3P XLR)
12. DMX output (3P XLR)

This unit is equipped with an adjustable focus, which makes it possible to sharpen the beam when used at small or large distance. The focus is positioned just underneath the mirror, around the lens. Turn the focus slightly left or right and see if the sharpness of the beam increases or decreases.

Setting up the unit

To activate the unit, connect the included power supply with the unit and a suitable 230V, 50 Hz power outlet. The unit will activate directly after it is plugged in to a wall outlet or other power source.

Give the scanner time to calibrate the stepping motors, which are used to determine the position of the mirror. You may hear and see some shaking, which is normal. The stepping motors use an end point to determine the beginning and end of their movement.

The status of the scanner is shown on the display. Certain values determine the current status and will change when you push buttons on the control panel. The buttons each have their own function, for easy navigation in the control panel.

Press the 'MENU' button to switch modes, so you can easily select the built-in master/slave, music controlled or DMX mode.

Display codes:

DMX-Mode: A001:

This value represents the DMX channel where the scanner is currently set to. 001 stands for channel 1, but can be changed with the UP and DOWN buttons to a value from 001 to 255.

When receiving DMX data, a small red dot on the display will blink continuously, regardless of what function is being used.

Music controlled mode:

When no DMX-signal is detected in DMX-mode, or when you select the master-mode, the unit will turn itself into music controlled mode. Use the microphone sensitivity potentiometer to adjust the sensitivity of the internal microphone for optimal light to sound functionality. When no music is detected, the scanner will play a slow automatic program until a beat or loud sound is detected.

Master/Slave mode: S-1- / D 1:

The D-value stands for the master-unit, which will use the internal microphone to perform music-controlled. This fixture will send out a signal for slave fixtures, which you may connect using standard XLR male to XLR female cables (not included).

The slave units show S-1- on the display, but a value of 0-4 can be chosen, using the UP and DOWN buttons. These values represent certain setting, for example pan/tilt invert, so your fixtures work synchronized while the mirror movements are inverted.

Pan and tilt mode: P 0 / T 0

The pan and tilt values of every fixture can be reversed. This makes synchronized, but movement-mirrored lightshows possible. The pan and tilt of every fixture can be mirrored individually.

P 0 represents the Pan mode. The default is set to 0, which means a normal working mode. By using the UP and DOWN buttons you are able to select 0 or 1, where 1 is the inverted mode.

T 0 represents the Tilt mode. The same settings apply here as described above.

LED display mode: d 0

The LED display of the unit can be turned off during use, which makes your light-show more attractive, especially if the display is visible for your audience. When using the menu-buttons the display will be lit, but after several seconds inactivity the display will be turned off. When pressing one of the menu buttons the display will activate itself again. The 0 value means display OFF, the 1 value means display ON. The DMX indicating dot will not turn off.

DMX control mode:

This fixture can be controlled using a DMX-controller and standard XLR male to XLR female cable. When doing so, make sure your DMX-controller is capable of controlling your fixture. When in doubt, contact your local dealer for advice.

Set the correct address on the digital display, you are able to choose a value between 001 and 255. When a

DMX-signal is received, a blinking red dot on the display is active.

This unit has the following DMX-channels and DMX-values:

Channel 1: Horizontal movement (pan)

Channel 2: Vertical movement (tilt)

Channel 3: Colors:

Start value	End value	Function
0	14	White
15	29	Orange
30	33	Blue
45	59	Green
60	74	Yellow
75	89	Pink
90	104	Light blue
105	119	Light green
120	127	Light yellow
128	255	Rainbow effect slow-fast

Channel 4: Gobos:

Start value	End value	Function
0	7	Open
8	14	Gobo 1
15	21	Gobo 2
22	28	Gobo 3
29	35	Gobo 4
36	42	Gobo 5
43	49	Gobo 6
50	56	Gobo 7
57	63	Gobo 8
64	70	Gobo Shake Open
71	77	Gobo Shake Gobo 1
78	84	Gobo Shake Gobo 2
85	91	Gobo Shake Gobo 3
92	98	Gobo Shake Gobo 4
99	105	Gobo Shake Gobo 5
106	112	Gobo Shake Gobo 6
113	119	Gobo Shake Gobo 7
120	127	Gobo Shake Gobo 8
128	255	Gobo Wheel rotation effect slow-fast

Channel 5: Shutter/Strobe:

Start value	End value	Function
0	7	Blackout
8	15	Shutter open
16	131	Strobe slow-fast (variable)
132	139	Shutter open
140	180	Shutter slow open -> fast close
181	189	Shutter open
190	231	Shutter fast open -> slow close

232	239	Shutter open (235 = reset function when the value is selected for 3-5 seconds)
240	247	Random strobe
248	255	Shutter open

Channel 6: Dimmer: 0-255 (variable)

Channel 7: Movement macros:

Start value	End value	Function
0	7	No function
8	25	Movement macro 1
26	43	Movement macro 2
44	61	Movement macro 3
62	79	Movement macro 4
80	97	Movement macro 5
98	115	Movement macro 6
116	133	Movement macro 7
134	151	Movement macro 8
152	169	Movement macro 9
170	187	Movement macro 10
188	205	Movement macro 11
206	223	Movement macro 12
224	241	Movement macro 13
242	255	Movement macro 14

Channel 8: Macro movement speed, slow – fast (variable).

Technical specifications

- Compact scanner with LED light source
- LED module: 1x 30W LED chip
- 8 DMX-channels
- 3-pin XLR in- and output
- Music controlled mode with internal microphone
- Microphone sensitivity adjustable
- Maximum flash rate: 18 Hz
- Maximum ambient temperature: 45 degrees Celsius
- Maximum distance from flammable surfaces: 0.5m
- Power consumption: 50W max.
- Fuse: 2A 250V 20mm glass fast blow
- Power supply: 230V AC, 50 Hz
- Dimensions: 370 x 200 x 150 mm (without bracket)
- Weight: 4 kg

Connectors:

- DMX: 3p XLR male and female
- Power: IEC power inlet/outlet connector

Included accessories:

- Power cable with Schuko & IEC connectors

Connectors and wiring schematics:

DMX-connections:

DMX-output

XLR mounting-socket:



- 1: Ground
- 2: Signal (-)
- 3: Signal (+)

DMX-input

XLR mounting-plug:



- 1: Ground
- 2: Signal (-)
- 3: Signal (+)

Electrical wiring:

Cable	Pin	International
Brown	Live	L
Blue	Neutral	N
Yellow/Green	Earth	