

# Acue<sup>®</sup>Lighting

PROFESSIONAL STAGE LIGHTING



## ***Extreme 150 Hybrid*** ***Instruction Manual***



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**Thank you for choosing Acue Lighting Products**

For your safety and the safety of others, do not modify this product in any way. Please note that damage caused by improper use, regular wear and tare, and misconduct with the product is beyond the scope of our warranty. Warranty only covers manufacturers defects for the amount of 1 year from purchase.

This equipment has passed strict testing and inspection before shipment. Please refer to the instruction manual's section under operation requirements (section 5), to ensure the safe operation of the product under normal conditions. Any damage caused by improper operation will void all warranty claims. Manufacturer does not accept any liability due to improper operation of its products or non-compliance of the instructions in this manual of any of any kind.

Please place the manual in a safe place for future reference.

## **1. Instructions**

### **1.1 Application According to Purpose**

- This product is a stage lighting luminaire, which creates special light effects using an LED light source. To generate these effects, the product must be connected to a proper power source and a DMX-512 compatible controller.
- This product is designed for 110/230V, 50/60Hz operation and exclusively for indoor use.
- If used for any purpose other than described in these operating instructions, the device may suffer damage and cause the warranty to be void.
- The manufacturer's serial number must never be removed as otherwise the warranty will be void.
- Safety and Maintenance checks must be done routinely to avoid any damages to the product and the surroundings.

### **1.2 Indoor use only**

- Make sure the equipment load-bearing structure (ceiling, wall, or truss) can withstand the weight of more than 10 times of fixture when installed above ground.
- Disconnect all power input to power supply before replacing lamp, fuse or other accessories
- Only operate under proper electrical standards not to overload circuits.
- Cool down for 15 minutes before replacing lamps. Please do not use other company's accessories.
- Contact your specialized dealer for any technical problems or issues

### **1.3 Safety operation**

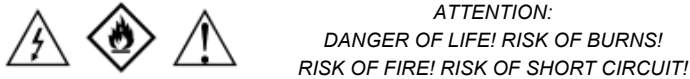
- Do not operate without outer cover or lenses
- Do not look directly to the light
- Replace immediately when lamp broken
- Do not project directly to items near 0.5M
- Do not operate in temperature over 45 °C

## 2. LED Diodes



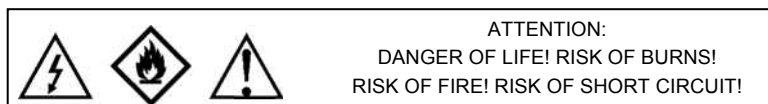
During operation, the lamps will reach temperatures of up to 75° C. Touching the lamps may cause serious burns! Objects coming into contact with the lamps during and shortly after operation may catch fire!

## 3. Supply Voltages, Mains Cord and Connection to Mains



- The handling of supply voltage, mains cords and connections to mains calls for particular care considering the risk from a life-threatening electric shock, the risk of fire and the risk of short circuits! Please observe the following notes in particular:
- Products operating on supply voltage should be kept out of the reach of children. Therefore ensure the permanent supervision if children are in the immediate vicinity of the product!
- For commercial facilities the regulations on the prevention of accidents of the respective trade association must be observed. The operation of this equipment at schools, training facilities, and hobby or self-help workshops must be supervised responsibly by trained personnel
- Check the product regularly for any damage to the mains cord! Should you discover any damage to the mains cord, do not operate or disconnect this product! Secure the product against accidental operation and contact your specialized dealer Always separate the product from mains by holding the mains plug by the handling surface. Never disconnect by holding the line cord! Be sure to connect the product exclusively to 230 V, 50 Hz A/C!
- Always ensure during installation, operation, transportation, and when storing the product that the mains cord is not exposed to possible mechanical damage, or damage caused by humidity, fluids, heat or cold!
- The product's power input connector must not be exposed to stress from pull. Connect the mains connection once the product has been installed only. Always connect the mains plug last.
- The product must only be connected to a proper power outlet. Connect the mains cord to suitable outlets only. Use extensions cords in compliance with specifications only. Do not allow the mains cord to come into contact with any liquids.
- Ensure during installation, operation, transport and storage that none of the cables are freely exposed or damaged.
- Never touch the mains cord, mains plug and outlets with wet or damp hands.
- When not using the product, and prior to cleaning always disconnect the product from mains. To do so, hold the mains plug by the handling surface and never pull from the mains cord itself.
- Never connect the device to dimmer packs.

## 4. Housing



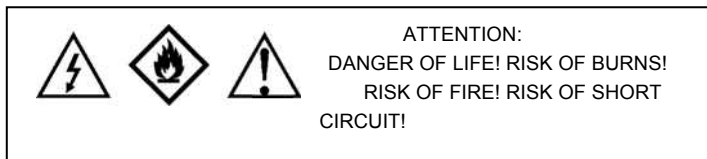
- Always ensure during installation, operation, transport and when storing the product that no force or other impact has damaged the housing!
- The housing must not touch onto any other devices or objects during operation!
- Easily flammable materials, e.g. decoration material and other surfaces and objects, must maintain a minimum distance of 3m to the housing! Walls must be a minimum distance of 50cm to the housing! The device must only be installed on a fireproof surfaces (no carpet)! Always ensure a proper circulation of air.
- Do not touch the housing during operation. The housing is safe to touch approx. 5 minutes following the end of operation as it will heat up during operation.

The device must never be carried via the projector arms. Use the carrying handles only!

Fluids must not enter the housing as this could reduce the protective insulation and may trigger short circuits, which may lead to a fatal electronic shock! If fluids have entered, disconnect the mains plug immediately and secure the product against unintentional operation and contact your dealer for further instructions. **Damage caused as a result of fluids entering the housing is exempt from warranty.**

No metal parts or other items must enter the housing as this may reduce the protective insulation or trigger short circuits which may lead to fatal electric shocks. If metal parts or other items have entered, disconnect the mains plug immediately, secure the product against unintentional operation and contact your specialized dealer! Damage caused by metal parts or other items in the housing is exempt from warranty.

## 5. Operating Environment



The product must be operated and stored in a dry environment only. Splash water, rain, humidity, or fog may reduce the protective insulation, which may lead to fatal electric shocks! The limit value for relative humidity is 50% at 45° C. A minimum distance of 1.5m to a fog machine must be observed; fog saturation in the room must not reduce the visibility to below 10m.

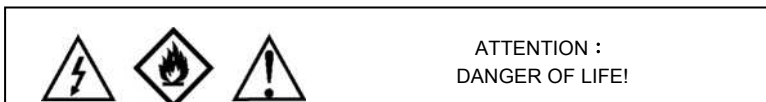
The product must be operated at a temperature range of between -5 ° C and 45 ° C only. Protect the product against direct exposure to sunlight or other heat, such as from radiators. If the product is taken from a cold environment into a warm environment it must only be taken into operation once it has reached ambient temperature, since the condensation created by the difference in temperature may cause damage to the luminaire.

Protect the product against dust. Dust may reduce the protective insulation, which may cause fatal electric shocks.

The product must be operated at altitudes ranging between 20m below and 3000m above sea level only!

The product must not be operated during thunderstorms to avoid risk of damage from surge voltages!

## 6. Installation



This product can be operated suspended from a ceiling or truss structure.

Should your lighting effect show any signs of damage, do not install the device. In this case, have your lighting effect repaired by an authorized dealer. The manufacturer does not accept responsibility or liability for damage to property or personal injury resulting from an improper installation.

As a stand-alone system the device must be installed vertically on an absolute planar, firm, shock- and vibration-free surface. The installation of this lighting effect must be carried out by trained and professional staff. The installation of this lighting fixture must only be carried out with the appropriate safety and hanging materials.

The suspended installation of this lighting effect necessitates a suitable suspension system. The lighting effect must never be fixed to a swinging platform.

It is a must to install this device with a second independent fastening system (ex. Safety cable or strap). Such second fastening system must guarantee in the event of failure of the main fastening system that no assembly parts will fall down. The second fastening system must only be connected to the bottom of the fixture base in the proper mounting location.

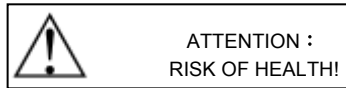
The light effect unit must be attached via two certified hooks and omega bracket when mounted to truss. Use of properly weight rated mounting options must be used when mounting to other surfaces• Use the screw threads on the under-surface of brackets only.

It must be ensured that an expert inspects the mechanical and safety-relevant installation prior to the initial operation and following major modifications, prior to the renewed operation. It must be ensured that an expert inspects the mechanical and safety-relevant installation at least once a year. It must be ensured that an expert inspects the mechanical installation and the installation of relevance to safety within the framework of an acceptance test at least every four years.

The installation method must be as such that it can withstand 10 times the load capacity without harmful deformation for a period of 60 minutes.

The light effect unit must be secured by a safety cable if fly-mounted. The cable must withstand 12 times the weight of the light effect unit. Use arrester cables equipped with quick closing links. The dropping distance must not exceed 20 cm. Defect arrested cables or arrested cables that have already been exposed to stress must not be used.

## 7. Operation



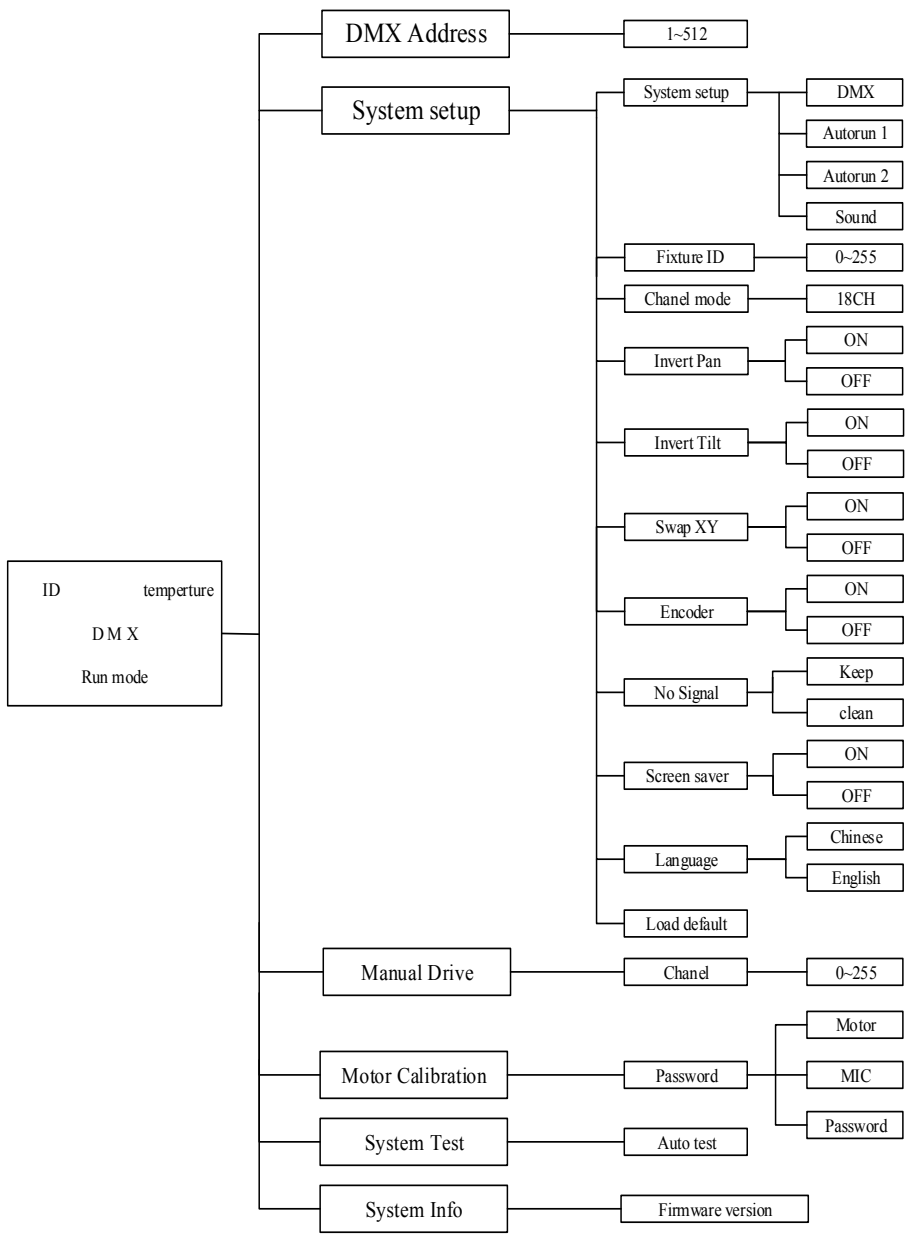
### 7.1 Controls

Link all DMX devices with a DMX-512 controller by using a standard, 3-pin DMX cable or 5-pin DMX cables. Connect the output of the first device with the input of the second device and the output of the second device with the input of the third device and so on.

Connect the mains plug to an outlet.

Operating the product for the first time may generate smoke and odor; this is not a defect. Avoid disconnecting the product repeatedly and quickly from mains. Always wait 15 minutes prior to the next disconnection

### 7.2 Menu Structure



7.3 DMX Channels

Channel	Function	Value	Description
1	Dimmer	0-255	From dark to bright
2	Strobe	0-10	No effect
		11-255	Strobe from slow to fast
3	Pan	0-255	Pan
4	Pan fine	0-255	Pan 16 bit
5	Tilt	0-255	Tilt
6	Tilt fine	0-255	Tilt 16 bit
7	Pan/tilt speed	0-255	Speed from fast to slow
8	Color	0-4	white
		5-9	White + color 1
		10-14	Color 1
		15-19	Color 1+color 2
		20-24	Color 2
		25-29	Color 2+color 3
		30-34	Color 3
		35-39	Color 3+color 4
		40-44	Color 4
		45-49	Color 4+color 5
		50-54	Color 5
		55-59	Color 5+color 6
		60-64	Color 6
		65-69	Color 6+color 7
		70-74	Color 7
		75-79	Color 7+white
80-167	Clockwise rotation from fast to slow		
168-255	Anti-clockwise rotation from slow to fast		
Fi	Fixed gobo	Open	
		0-4	Gobo 1
		5-9	Gobo 2
		10-15	Gobo 3
		15-19	Gobo 4
		20-24	Gobo 5
		25-29	Gobo 6
		30-34	Gobo 7
		35-39	Gobo 8
		40-44	Gobo 9
		45-49	Gobo 10
		50-54	Gobo 1 shake
		55-59	Gobo 2 shake



	Fixed gobo	60-64	Gobo 3 shake
		65-69	Gobo 4 shake
		70-74	Gobo 5 shake
		75-79	Gobo 6 shake
		80-84	Gobo 7 shake
		85-89	Gobo 8 shake
		90-94	Gobo 9 shake
		95-99	Gobo 10 shake
		100-177	Anti-clockwise rotation from fast to slow
		178-255	Clockwise rotation from slow to fast
10	Rotation gobo	0-9	Open
		10-19	Rotation gobo 1
		20-29	Rotation gobo 2
		30-39	Rotation gobo 3
		40-49	Rotation gobo 4
		50-59	Rotation gobo 5
		60-69	Rotation gobo 6
		70-79	Rotation gobo 1 shake
		80-89	Rotation gobo 2 shake
		90-99	Rotation gobo 3 shake
		100-109	Rotation gobo 4 shake
		110-119	Rotation gobo 5 shake
		120-129	Rotation gobo 6 shake
		130-193	Anti-clockwise rotation from fast to slow
194-255	Clockwise rotation from slow to fast		
11	Gobo rotation	0-127	Gobo angle
		128-190	Clockwise rotation from fast to slow
		191-192	Stop
		193-255	Anti-clockwise rotation from slow to fast
12	Focus	0-255	Focus
13	Zoom	0-255	Gobo zoom
14	Automatic focus	0-9	No effect
		10-255	Auto adjustment of zoom with focus
15	Frost	0-127	Empty
		128-255	Frost
16	Prism	0-127	Prism off
		127-255	Prism on
17	Prism rotation	0-127	Prism angle
		128-190	Anti-clockwise rotation from fast to slow

		191-192	Stop
		193-255	Clockwise rotation from slow to fast
18	Macro function	0-5	No effect
		6-55	Mode 1
		56-105	Mode 2
		106-155	Mode 3
		156-205	Mode 4
		206-255	Random mode
19	Reset	0-25	No effect
		26-76	Small motor reset after 5 seconds delay
		77-127	XY reset after 5 seconds delay
		128-255	Whole unit reset after 5 seconds delay

## 8. Replacement of Fuse.

Disconnect the product from the mains prior to changing a fuse.

Only replace the fuse by a fuse of same type and rating. An incorrect fuse could damage the lighting effect.

Replace a fuse by levering the fuse holder cover with an appropriate screwdriver. Remove the old fuse and place the fuse inside the fuse holder. Replace the fuse holder and insert it back into housing.

Never connect the lighting effect to the mains prior with opened fuse housing.

## 9. Maintenance & Care instructions

The fixture must be cleaned regularly from dust, other deposits and contamination as this may reduce the protective insulation, which may lead to a fatal electric shock.

Before cleaning, always disconnect the product from mains.

This product should be cleaned with a moist cloth only. Never use aggressive cleaning agents, solvents or benzene for cleaning.

## 10. Technical parameters

Lamp: Single 120W LED

Life: 50,000H

Control channels: 19 channels

Pan movement: 540° (16 bit )

Tilt movement: 240° (16 bit )

Advanced Movement System: Fast, precise, and quiet, auto X-Y repositioning

Color wheel: 7 dichroic filters +open, half-color and rainbow effect

Fixed gobo wheel: 10 fixed gobos + open

Rotating gobo: 6 interchangeable, rotating, indexable, gobos + open

Rotating effect wheel: 3 facets prism

Focus: Motorized focus

Zoom angle: 7-16°

Shutter: Variable from 1-25 flashes or random strobe

Dimmer: 0~100% linear dimming

Frost: Fine wash effect

LCD display

N.W.: 10KG

G.W.: 12KG

Packing size: 385\*325\*475MM