

Acue[®]Lighting

PROFESSIONAL STAGE LIGHTING

Extreme 250 Hybrid



Instruction Manual



Contents

1 Instructions -----	2
1.1 Application -----	2
1.2 Indoor use only -----	2
1.3 Safety operation -----	2
2 Lamp -----	3
3 Supply Voltages, Mains Cord and Connection to Mains -----	3
4 Housing -----	4
5 Operation Environments -----	4
6 Installation -----	5
7 Operation -----	6
7.1 Controls -----	6
7.2 Menu structure -----	6
7.3 Channel -----	9
8 Fuse of the replacement -----	10
9 Care instructions -----	11
10 Technical Parameters -----	11

Thank you for choosing an Acue Lighting product.

To be on the safe side and for security & safety, do not open or modify this product. Please note that man-made damage caused by improper use is beyond the scope of our warranty.

This equipment passes strict inspection before shipment; please comply with the instruction manual operation requirements 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 responsibility of liability for property damage and/or personal injury due to improper operation of products or non-compliance of the instructions listed in this manual. Place the manual in safe location for future.

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 those 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 will cause the warranty to expire.
- Safety and Maintenance

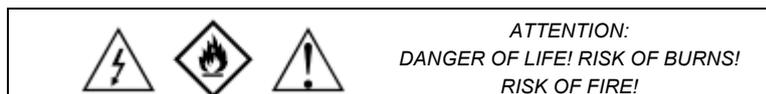
1.2 Indoor use only

- 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
- Replace lamp immediately when lamp malfunctions
- Do not project directly to items near 0.5M with magnification lenses
- 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



ATTENTION:
DANGER OF LIFE! RISK OF BURNS!
RISK OF FIRE! RISK OF SHORT CIRCUIT!

- 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 dealer. Always disconnect 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 or 110 V, 60 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 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 maintain a minimum distance of 50cm to the housing while in movement. The device must be installed away from highly flammable items. 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 or once completely cooled.

The device must never be carried from the projector's 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 fatal a 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.

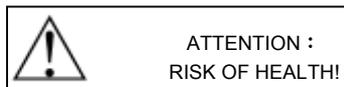
The light effect unit must be attached via two certified hooks and omega bracket when mounted to truss. Use of properly weight rated mounting options must be used when mounting to other surfaces• Use the screw threads on the under-surface of brackets only.

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 lighting fixture must be secured by a safety cable when ceiling mounted. The cable must withstand 12 times the weight of the lighting fixture. Use safety cables equipped with quick closing links. Damaged safety cables or safety cables that have already been exposed to stress must not be used.

7. Operation



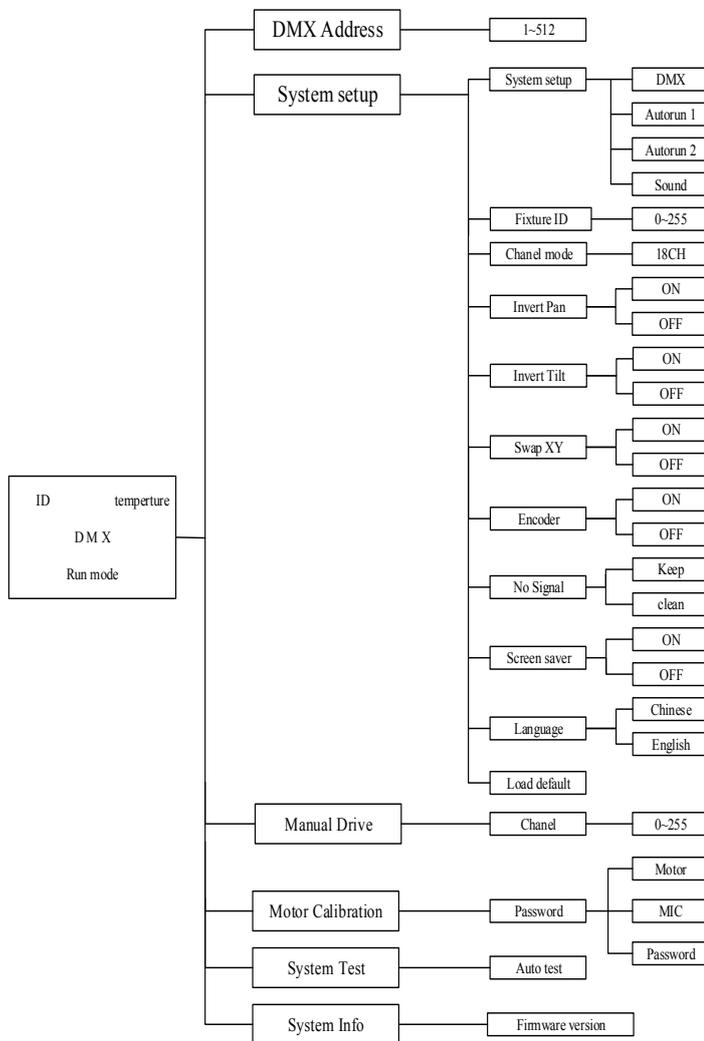
7.1 Controls

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 Channel List

Channel	Function	DMX Value	Description	Remarks
CH1	Pan	0~255	Pan 0~540 degree	
CH2	Pan Fine	0~255	Pan 16bit	
CH3	Tilt	0~255	Tilt 0~240 degree	

CH4	Tilt Fine	0~255	Tilt 16bit	
CH5	XY Speed	0~255	From Fast to slow	
CH6	Dimmer	0~255	From dark to bright	
CH7	Strobe	0~3	On	Dimmer no-delay
		4~100	Strobe in step	
		101~150	Strobe by dividing equally	
		151~200	Sharp-strobe	
		201~250	Strobe randomly	
		251~255	ON	
CH8	Color wheel	0~9	White	
		10~19	Color 1	
		20~29	Color 2	
		30~39	Color 3	
		40~49	Color 4	
		50~59	Color 5	
		60~69	Color 6	
		70~79	Color 7	
		80~89	Color 8	
		90~99	Color 9	
		100~109	white+color 1 half color	
		110~119	Color 1+color 2 half color	
		120~129	Color 2+color 3 half color	
		130~139	Color 3+color 4 half color	
		140~149	Color 4+color 5 half color	
		150~159	Color 5+color 6 half color	
		160~169	Color 6+color 7 half color	
		170~179	Color 7+color 8 half color	
		180~189	Color 8+color 9 half color	
		190~199	Color 9+white half color	
		200~226	Water effect clockwise, from fast to slow	
		227~228	Stop run	
229~255	Water effect anti-clockwise, from slow to fast			
CH9	Fixed gobo wheel	0~4	Gobo 1 (Middle circle)	Useless for rotation gobo
		5~9	Gobo 2 (Small circle)	
		10~14	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 11 (Big circle)	Follow with rotation gobo		
		55~64	Gobo 1 shake (from fast to slow)	Valid for rotation gobo		
		65~74	Gobo 2 shake (from fast to slow)			
		75~84	Gobo 3 shake (from fast to slow)			
		85~94	Gobo 4 shake (from fast to slow)			
		95~104	Gobo 5 shake (from fast to slow)			
		105~114	Gobo 6 shake (from fast to slow)			
		115~124	Gobo 7 shake (from fast to slow)			
		125~134	Gobo 8 shake (from fast to slow)			
		135~144	Gobo 9 shake (from fast to slow)			
		145~154	Gobo 10 shake (from fast to slow)			
		155~204	Water effect clockwise, from fast to slow			
		205	Stop run			
		206~255	Water effect anti-clockwise, from slow to fast			
		CH10	Rotation gobo wheel		0~9	Open
				10~19	Rotated gobo 1	
20~29	Rotated gobo 2					
30~39	Rotated gobo 3					
40~49	Rotated gobo 4					
50~59	Rotated gobo 5					
60~69	Rotated gobo 6					
70~79	Rotated gobo 7					
80~89	Circle shake (from fast to slow)					
90~99	Rotated gobo 1 shake (from fast to slow)					
100~109	Rotated gobo 2 shake (from fast to slow)					
110~119	Rotated gobo 3 shake (from fast to slow)					
120~129	Rotated gobo 4 shake (from fast to slow)					
130~139	Rotated gobo 5 shake (from fast to slow)					
140~149	Rotated gobo 6 shake (from fast to slow)					
150~159	Rotated gobo 7 shake (from fast to slow)					
160~206	Water effect clockwise, from fast to slow					
207~208	Stop run					
209~255	Water effect anti-clockwise, from slow to					

			fast	
CH11	Gobo wheel rotation	0~127	Gobo rotation 360degree, clockwise	
		128~190	Rotation clockwise, from fast to slow	
		191~192	Stop run	
		193~255	Rotation anti-clockwise, from slow to fast	
CH12	Prism	0~127	Prism out	
		128~255	Prism in	Prism first
CH13	Prism rotation	0~127	Prism rotation 90 degree	
		128~190	Rotation clockwise, from fast to slow	
		191~192	Stop run	
		193~255	Rotation anti-clockwise, from slow to fast	
CH14	Frost	0~127	Frost out	
		128~255	Frost in	Frost first
CH15	Focus	0~255	0-100% linear focus	Focus first
CH16	Zoom	0~255	0-100% linear zoom	
CH17	Macro function	0~50	No function	
		51~100	Function self-inspection	
		101~150	Auto run 1	
		151~200	Auto run 2	
		201~255	Sound active	
CH18	Reset	0~250	No function	
		251-255	Reset (keep 5 seconds)	

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 200W white LED light source

Life: 50,000H

Control channel: 18 channels

Pan movement: 540° (16 bit)

Tilt movement: 240° (16 bit)

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

Color wheel: 9 dichroic filters +open, half color and rainbow effect

Fixed gobo wheel: 10 fixed gobos + open

Rotating gobo: 7 interchangeable, rotating, indexable, gobos + open, 3D gobos

Rotating effect wheel: 4 facets prism

Focus: motorized focus

Zoom angle: 7-27°

Shutter: Variable from 1-25 flashes or random strobe

Dimmer: 0~100% linear dimming

Frost: fine wash effect

LCD display

N.W.: 12KG

G.W.: 14KG

Packing size: 725*465*495MM

Thank you for purchasing Acue Lighting products.