



PROFESSIONAL STAGE LIGHTING

FUSION 4 FX



USER MANUAL

1. INTRODUCTION

Thank you for choosing the Acue Lighting Fusion 4 FX. To use this product correctly and safely, please read the instructions carefully before installing and using this product. This manual contains important installation and operation information. Make sure to strictly follow the instructions when installing and operating this product. Retain this manual in a safe place for future reference.

The Fusion 4 FX uses a high-temperature resistant aluminum/metal body with hard plastic covers and is IP19 rated. IP19 is a classification given to devices that are designed mostly for indoor use in cool dry areas. This product is designed and produced in strict accordance with CE standards and conforms to the international standard of DMX512 signal protocol. It can be controlled manually from the display or by DMX using the built in 3-pin XLR in/out connectors. This fixture is suitable for various types of indoor concerts, indoor events, indoor installations, and other like environments.

2. SAFETY INSTRUCTIONS

- Please keep this User Manual for future reference. All users of this fixture must read the user manual thoroughly.
- Unpack and check contents carefully to make sure there is no damage caused by shipping before using the unit.
- Before operating, ensure that the voltage and frequency of power supply match the power requirements of the unit.
- It's important to properly ground the fixture to avoid electric shock.
- The unit is designed for indoor use. It is alright to use outdoors temporarily but not when moisture is present. Do not point fixture directly into sunlight. Make sure main power connector is connected to an outlet that is not near liquids or moisture.
- The unit must be installed in a location with adequate ventilation, at least 50cm from adjacent surfaces. Be sure that no ventilation slots are blocked.
- Disconnect main power before moving fixture.
- Make sure there are no flammable materials close to the unit while operating, as it is fire hazard.
- Use safety cable when mounting this unit.
- Do not connect this product to power dimmers.

- Max ambient operating temperature is 40°C. Do not operate if the temperature is higher than this.
- Unit surface temperature may reach up to 85°C. Do not touch the housing bare-handed during its operation.
Turn off the power and allow about 15 minutes for the unit to cool down before replacing or serving.
- In the event of serious operating problem, stop using the unit immediately. Never try to repair the unit by yourself. Repairs carried out by unskilled individuals can lead to further damage or malfunction. Please contact the nearest authorized technical assistance center. Always use the same type of parts.

3. Maintenance and Installation

3.1 Maintenance

- To reduce the risk of electrical shock or fire, do not expose the power cable connector of this unit to rain or moisture.
- Intermittent usage will extend this fixtures service life.
- Please clear the fan, fan net, and optical lens of any dust or obstructions in order to keep the fixture in a proper working state.
- Do not use alcohol or any other organic solvent to wipe the shell.

3.2 Statement

All fixtures have been tested thoroughly before leaving the factory. In order to keep the product in good condition and ensure safe operation, users should follow the safety precautions and warnings in this manual.

Important: Damages caused by not following the guidelines in this user manual are not covered under warranty. The manufacturer is not responsible for product issues caused by misuse.

3.3 Safety Precaution

- In order to guarantee the product's life expectancy, do not store or use in environments over 60°C.
- Always mount this unit in a safe and stable manner. Mounting system must be able to withstand 10x that of the fixture's weight. A safety cable must always be used as a secondary source for securing the fixture.
- Installation of this fixture may only be carried out by skilled individuals.
- This product can be used in the voltage range of 90-240V and is an indoor rated product. Please make sure that the power mains voltage used is not higher/or lower than what the product can withstand! The power plug must

be inserted into a protected Class I socket and must be grounded properly.

- In order to make sure the product is used properly, please read this manual carefully.

3.4 Cable connection (DMX)

Make sure to use a cable conforming to specifications EIA RS-485: 2-pole twisted, shielded, 120Ohm characteristic impedance, 22-24 AWG, Low capacity. Do not use microphone cable or other cable with characteristics differing from those specified. The end connections must be made using XLR type 3-pin/ 5-pin male/female connectors. A terminating plug must be inserted into the last fixture with a resistance of 120 Ohm (minimum 1/4 W) between terminals 2 and 3.

IMPORTANT: The wires must not make contact with each other or with the metal casing of the connectors. The casing itself must be connected to the ground of the connector plugs.

4. Display Operation

The Fusion 4 FX comes equipped with a digital display screen which controls all the functions of the fixture. There are 4 control buttons also built-in for easier navigation through the display functions.

4.1. Key Operation and Display instructions



MENU: Function key UP: Plus key DOWN: Minus key ENTER: Confirm key

	Content	Value	Description
1	A001	001 - 512	DMX512 address setting
2	CHnd	13/25CH	Channel mode settings
3	U255	000 - 255	Main Amber color dimming, from dark to bright
4	R255	000 - 255	Auxiliary light red dimming, from dark to bright
5	G255	000 - 255	Auxiliary light green dimming, from dark to bright
6	B255	000 - 255	Auxiliary light blue dimming, from dark to bright
7	F000	005 - 255	Strobe, 10-254 from slow to fast, 0-9, 255 no flash
8	CL01	01 - 20	20 built-in color combinations to choose from
9	Auto	-	Self-propelled effect, press the OK button to set the speed S 000 - S 255
10	Soud	-	Voice control effect, press the OK button to set the sensitivity SE01 - SE15

5. DMX Channel Charts

13 Channel Mode

Channel	Value	Description
CH 1	000-255	Total dimming
CH 2	000-255	Strobe, 10-254 from slow to fast, 0-9, 255 no flash
CH3	000-255	Main light 1# dimming
CH4	000-255	Main light 2# dimming
CH5	000-255	Main light 3# dimming
CH6	000-255	Main light 4# dimming
CH 7	000-255	Auxiliary light red
CH 8	000-255	Auxiliary light green
CH 9	000-255	Auxiliary light blue
CH 10	005 -255	Main light effect, see Appendix 1 for details
CH 11	000-255	Main light effect: forward speed adjustment 0-127, reverse speed adjustment 128-255;
CH 12	000-255	Auxiliary lighting effects , see Appendix 1 for details
CH 13	000-255	The auxiliary light effect is adjusted from 0 to 127, and the reverse speed is adjusted from 128 to 255;

25 Channel Mode

Channel	Value	Description
CH 1	000-255	Total dimming
CH 2	000-255	Strobe, 10-254 from slow to fast, 0-9, 255 no flash
CH3	000-255	Main light 1# dimming
CH4	000-255	Main light 2# dimming
CH5	000-255	Main light 3# dimming
CH6	000-255	Main light 4# dimming
CH 7	000-255	Auxiliary light red
CH 8	000-255	Auxiliary light green
CH 9	000-255	Auxiliary light blue
CH 10	005 -255	Main light effect, see Appendix 1 for details
CH 11	000-255	Main light effect: forward speed adjustment 0-127, reverse speed adjustment 128-255;
CH 12	000-255	Auxiliary light effect , see Appendix 1 for details
CH 13	000-255	The auxiliary light effect is adjusted from 0 to 127, and the reverse speed is adjusted from 128 to 255;
CH 14	000-255	Auxiliary light red 1
CH 15	000-255	Auxiliary light green 1
CH 16	000-255	Auxiliary light blue 1
...	...	...
CH23	000-255	Auxiliary light red 4
CH24	000-255	Auxiliary light green 4
CH 25	000-255	Auxiliary light blue 4

5.1 Appendix 1: Description of built-in effect functions

CH10 Value	Function	CH12 Value	Function
0 - 4	No effect	0 - 4	No effect
5 - 11	Main light effect 1	5 - 11	Auxiliary light effect 1
12 - 18	Main light effect 2	12 - 18	Auxiliary light effect 2
19 - 25	Main light effect 3	19 - 25	Auxiliary light effect 3
26 - 32	Main light effect 4	26 - 32	Auxiliary light effect 4
33 - 39	Main light effect 5	33 - 39	Auxiliary light effect 5
40 - 46	Main light effect 6	40 - 46	Auxiliary light effect 6
47 - 53	Main light effect 7	47 - 53	Auxiliary light effect 7
54 - 60	Main light effect 8	54 - 60	Auxiliary light effect 8
61 - 67	Main light effect 9	61 - 67	Auxiliary light effect 9
68 - 74	Main light effect 10	68 - 74	Auxiliary light effect 10
75 - 81	Main light effect 11	75 - 81	Auxiliary light effect 11
82 - 88	Main light effect 12	82 - 88	Auxiliary light effect 12
89 - 95	Main light effect 13	89 - 95	Auxiliary light effect 13
96 - 102	Main light effect 14	96 - 102	Auxiliary light effect 14
103 - 109	Main light effect 15	103 - 109	Auxiliary light effect 15
110 - 116	Main light effect 16	110 - 116	Auxiliary light effect 16
117 - 123	Main light effect 17	117 - 123	Auxiliary light effect 17
124 - 130	Main light effect 18	124 - 130	Auxiliary light effect 18
131 - 137	Main light effect 19	131 - 137	Auxiliary light effect 19
138 - 144	Main light effect 20	138 - 144	Auxiliary light effect 20
145 - 151	Main light effect 21	145 - 151	Auxiliary light effect 21
152 - 158	Main light effect 22	152 - 158	Auxiliary light effect 22
159 - 165	Main light effect 23	159 - 165	Auxiliary light effect 23
166 - 172	Main light effect 24	166 - 172	Auxiliary light effect 24
173 - 179	Main light effect 25	173 - 179	Auxiliary light effect 25
180 - 186	Main light effect 26	180 - 186	Auxiliary light effect 26
187 - 193	Main light effect 27	187 - 193	Auxiliary light effect 27
194 - 200	Main light effect 28	194 - 200	Auxiliary light effect 28
201 - 207	Main light effect 29	201 - 207	Auxiliary light effect 29
208 - 214	Main light effect loop 30	208 - 255	Auxiliary light effect cycle 30
215 - 255	Sound control effects		

6. Technical Specifications

- **Input Voltage:** AC100-230V 50/60 Hz
- **Max Power Draw:** 250W
- **Light Source:** 4 x 50W Amber COB LEDs, 192 x 0.2W SMD 5050 RGB LEDs
- **Light Source Life:** 50,000 hours
- **Control mode:** DMX512, Sound control, Auto, Master-Slave control
- **DMX Input:** 3-Pin XLR input/output
- **Channel Modes:** 13/25 channel modes
- **Strobe Speed:** 0-20 times/second (speed adjustable)
- **Overall Dimensions:** 450*450*200mm / 17.7" x 17.7" x 7.9"
- **Product Net Weight:** 4.5 Kg / 9.9 lb

7. Warranty

This product carries a 1-year manufacturer's warranty which covers factory defects or internal issues not caused by the owner/operator of the fixture. Misuse, physical damage, or any other issues caused by misuse by the customer are not covered under manufacturer's warranty. All warranty claims must be handled directly through the manufacturer and not the dealer. Original sales receipt required for all warranty claims. Submit all claims to Info@AcueLighting.com.

For more information about this product as well as all our other products please visit:

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