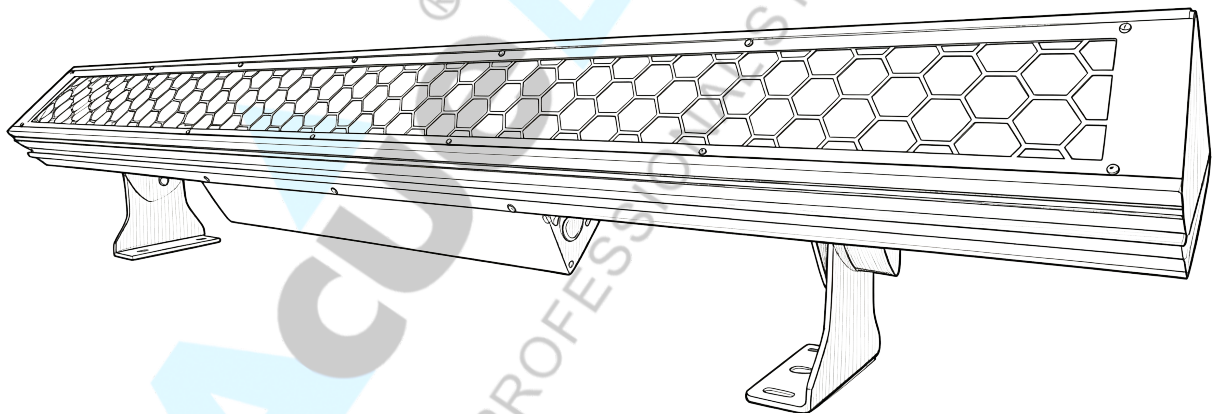




PROFESSIONAL STAGE LIGHTING

FUSION BAR FX



USER MANUAL

1. INTRODUCTION

Thank you for choosing the Acue Lighting Extreme 300 CMY Hybrid. 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 Extreme 300 CMY Hybrid 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/5-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 Bar FX comes equipped with a LED display which controls all the functions of the fixture. There are 4 control buttons also built-in for easy navigation through the display functions.

4.1 Menu Navigation

MENU		DESCRIPTION
DMX Address	001-512	DMX address setting
DMX Channel	5CH	5 DMX channel mode
	6CH	6 DMX channel mode
	14CH	14 DMX channel mode
	16CH A	16 DMX channel A mode
	16CH B	16 DMX channel B mode
	19CH	19 DMX channel mode
	47CH	47 DMX channel mode
	52CH	52 DMX channel mode
Static Color	LED 1	Static main LED 1
	LED 2	Static main LED 2
	LED 3	Static main LED 3
	LED 4	Static main LED 4
	LED 5	Static main LED 5
	LED 6	Static main LED 6
	LED 7	Static main LED 7

	LED 8		Static main LED 8
	LED 9		Static main LED 9
	LED 10		Static main LED 10
	RedBack		Backlight red
	GreenBack		Backlight green
	BlueBack		Backlight blue
Color Fine	LED 1	000-255	Dimming main LED 1
	LED 2	000-255	Dimming main LED 2
	LED 3	000-255	Dimming main LED 3
	LED 4	000-255	Dimming main LED 4
	LED 5	000-255	Dimming main LED 5
	LED 6	000-255	Dimming main LED 6
	LED 7	000-255	Dimming main LED 7
	LED 8	000-255	Dimming main LED 8
	LED 9	000-255	Dimming main LED 9
	LED 10	000-255	Dimming main LED 10
	Red Back	000-255	Dimming backlight red
	Green Back	000-255	Dimming backlight green
	Blue Back	000-255	Dimming backlight blue
Strobe Mode		000-020	Strobe mode from slow to fast
Auto Program	Flow 1	000-099	Macro function
	Flow 2	000-099	
	Flow 3	000-099	
	Puls	000-099	
	Strobe	000-099	
	Background 1	000-099	
	Background 2	000-099	
	Background 3	000-099	
DimMode	Dim1		Dim curve 1
	Dim2		Dim curve 2
	Dim3		Dim curve 3
	Dim4		Dim curve 4
DisplayINV	Yes/No		Reverse display
DisplayOFF	30S/60/No		Display standby time
Frost	On/Off		
KeyLock	OFF/ON		Disable/enable button lock
Info	Software version		
Reset	Yes/no		Load default setting

5. DMX Channel Charts

5 Ch Mode

CHANNEL	FUNCTION	VALUE	DESCRIPTION
1	Main LED dimmer	000-255	Dimming main LED
2	Backlight dimmer	000-255	Dimming backlight red
3		000-255	Dimming backlight green
4		000-255	Dimming backlight blue
5	Frost dimmer	000-255	Dimming frost

6 Ch Mode

CHANNEL	FUNCTION	VALUE	DESCRIPTION
1	Main LED dimmer	000-255	Dimming main LED
2	Backlight dimmer	000-255	Dimming backlight red
3		000-255	Dimming backlight green
4		000-255	Dimming backlight blue
5	Strobe	000-255	Strobe from slow to fast
6	Frost dimmer	000-255	Dimming frost

14 Ch Mode

CHANNEL	FUNCTION	VALUE	DESCRIPTION
1	Main LED dimmer	000-255	Dimming main LED 1
2		000-255	Dimming main LED 2
3		000-255	Dimming main LED 3
4		000-255	Dimming main LED 4
5		000-255	Dimming main LED 5
6		000-255	Dimming main LED 6
7		000-255	Dimming main LED 7
8		000-255	Dimming main LED 8
9		000-255	Dimming main LED 9
10		000-255	Dimming main LED 10
11	Backlight dimmer	000-255	Dimming backlight red
12		000-255	Dimming backlight green
13		000-255	Dimming backlight blue
14	Frost dimmer	000-255	Dimming frost

16 Ch Mode A

CHANNEL	FUNCTION	VALUE	DESCRIPTION
1	Master dimmer	000-255	Master dimmer
		000	Disable CH14-CH16
		001-255	Enable CH14-CH16
2	Strobe	000-255	Strobe from slow to fast
3	Frost	000-255	Dimming frost
4	Main LED dimmer	000-255	Dimming main LED 1
5		000-255	Dimming main LED 2
6		000-255	Dimming main LED 3
7		000-255	Dimming main LED 4
8		000-255	Dimming main LED 5
9		000-255	Dimming main LED 6
10		000-255	Dimming main LED 7
11		000-255	Dimming main LED 8
12		000-255	Dimming main LED 9
13		000-255	Dimming main LED 10
14	Backlight dimmer	000-255	Dimming backlight red
15		000-255	Dimming backlight green
16		000-255	Dimming backlight blue

16 Ch Mode B

CHANNEL	FUNCTION	VALUE	DESCRIPTION
1	Master dimmer	000-255	Master dimmer
		000	Disable CH16
		001-255	Enable CH16
2	Strobe	000-255	Strobe from slow to fast
3	Frost	000-255	Dimming frost
4	Main LED dimmer	000-255	Dimming main LED 1
5		000-255	Dimming main LED 2
6		000-255	Dimming main LED 3
7		000-255	Dimming main LED 4
8		000-255	Dimming main LED 5
9		000-255	Dimming main LED 6
10		000-255	Dimming main LED 7
11		000-255	Dimming main LED 8
12		000-255	Dimming main LED 9
13		000-255	Dimming main LED 10
14	Main LED macro	000-009	Enable CH4-CH13
		010-255	Main LED macro function (Check Chart-1)
15	Speed for CH14	000-255	Speed for main LED macro function
16	Backlight macro	000-255	Backlight macro function (Check Chart-2)

19Ch Mode

CHANNEL	FUNCTION	VALUE	DESCRIPTION
1	Master dimmer	000-255	Master dimmer
		000	Disable CH16-CH19
		001-255	Enable CH16-CH19
2	Strobe	000-255	Strobe from slow to fast
3	Frost	000-255	Dimming frost
4	Main LED dimmer	000-255	Dimming main LED 1
5		000-255	Dimming main LED 2
6		000-255	Dimming main LED 3
7		000-255	Dimming main LED 4
8		000-255	Dimming main LED 5
9		000-255	Dimming main LED 6
10		000-255	Dimming main LED 7
11		000-255	Dimming main LED 8
12		000-255	Dimming main LED 9
13		000-255	Dimming main LED 10
14	Main LED macro	000-009	Enable CH4-CH13
		010-255	Main LED macro function (Check Chart-1)
15	Speed for CH14	000-255	Speed for main LED macro function
16	Backlight dimmer	000-255	Dimming backlight red
17		000-255	Dimming backlight green
18		000-255	Dimming backlight blue
19	Backlight macro	000-009	Enable CH16-CH18
		010-255	Background macro function (Check Chart-2)

47Ch Mode

CHANNEL	FUNCTION	VALUE	DESCRIPTION
1	Main LED dimmer	000-255	Dimming main LED 1
2		000-255	Dimming main LED 2
.....			
10	Main LED dimmer	000-255	Dimming main LED 10
11		000-255	Dimming backlight red 1
12		000-255	Dimming backlight green 1
13	Backlight section 1 dimmer	000-255	Dimming backlight blue 1
14		000-255	Dimming backlight red 2
15		000-255	Dimming backlight green 2
16	Backlight section 2 dimmer	000-255	Dimming backlight blue 2
.....			
44	Backlight section 12 dimmer	000-255	Dimming backlight red 12
45		000-255	Dimming backlight green 12
46		000-255	Dimming backlight blue 12
47	Frost dimmer	000-255	Dimming frost

52Ch Mode

CHANNEL	FUNCTION	VALUE	DESCRIPTION
1	Master dimmer	000-255	Master dimmer
		000	Disable CH16-CH52
		001-255	Enable CH16-CH52
2	Strobe	000-255	Strobe from slow to fast
3	Frost	000-255	Dimming frost
4	Main LED dimmer	000-255	Dimming main LED 1
5		000-255	Dimming main LED 2
.....			
13	Main LED dimmer	000-255	Dimming main LED 10
14		000-009	Enable CH4-CH13
15		010-255	Main LED macro function (Check Chart-1)
16	Speed for CH14	000-255	Speed for main LED macro function
17		000-009	Enable CH17-CH52
18		010-255	Background macro function (Check Chart-2)
19	Backlight section 1 dimmer	000-255	Dimming backlight red 1
20		000-255	Dimming backlight green 1
21		000-255	Dimming backlight blue 1
22	Backlight section 2 dimmer	000-255	Dimming backlight red 2
23		000-255	Dimming backlight green 2
24		000-255	Dimming backlight blue 2
.....			
50	Backlight section 12 dimmer	000-255	Dimming backlight red 12
51		000-255	Dimming backlight green 12
52		000-255	Dimming backlight blue 12

Chart 1 (Main LED macro function)

010	-	049	Main LED macro function-1
050	-	099	Main LED macro function-2
100	-	149	Main LED macro function-3
150	-	199	Main LED macro function-4
200	-	255	Main LED macro function-5

Chart 2 (Backlight macro function)

010	-	019	Backlight red
020	-	029	Backlight green
030	-	039	Backlight blue
040	-	049	Backlight cyan
050	-	059	Backlight purple
060	-	069	Backlight yellow
070	-	079	Backlight white
080	-	099	Backlight macro function-1 red from slow to fast
100	-	119	Backlight macro function-2 green from slow to fast
120	-	139	Backlight macro function-3 blue from slow to fast
140	-	159	Backlight macro function-4 red+green+blue from slow to fast
160	-	179	Backlight macro function-5 color jump from slow to fast
180	-	199	Backlight macro function-6 mix-color run from slow to fast
200	-	219	Backlight macro function-7 mix-color run from slow to fast
220	-	255	Enable backlight dimmer

6. Technical Specifications

Power Input Voltage	100-240V~50/60Hz	
Power Consumption	375W Max	
Light Source	10x 30W COB Amber LEDs + 144x 0.5w RGB LEDs	
Beam Angle	48/74 deg (no frost/frost)	
Dimmer/Strobe	0-100% smooth dimming; high output strobe effect	
Control	DMX Channel	5 CH
		6 CH
		14 Ch
		16 Ch Mode A
		16 Ch Mode B
		19 Ch
		47 CH
		52 Ch
	Control Mode	DMX512
		Master/Slave
		Manual
		Auto/sound
Construction	Display	OLED display
	Data IN/Out	3-pin XLR DMX connectors
	Power In/Out	Powercon in/out connectors
Dimensions	100 x 7.5 x 12.5 CM/ 39.5" x 3" x 5"	
Weight	3.3 kg / 7.3 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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