

Acue[®] PRO

Extreme 300 CMY
Hybrid



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 Extreme 300 CMY Hybrid LED moving heads come equipped with a touch screen display which controls all the functions of the fixture. There are 4 control buttons also built-in for easier navigation through the display functions.



Press MENU----UP----DOWN----ENTER in sequence to unlock the display

4.1 Menu Navigation

Press "MENU" to access the sub-menu. There are 6 sub-pages which control/show different functions or statuses. (see diagram below)



- ADDRESS: Used to set the DMX address of the fixture
- WORKMODE: Used to set the work mode as well as master/slave mode selection.
- DISPLAY: Used to adjust the parameters of the display like language, screen protection, and etc.
- SCENE : Used for testing the fixture. Simulates the values of corresponding DMX channels
- ADVANCE: Used to set advanced operating parameters
- STATUS: Displays the current status of the fixture including error code detection.



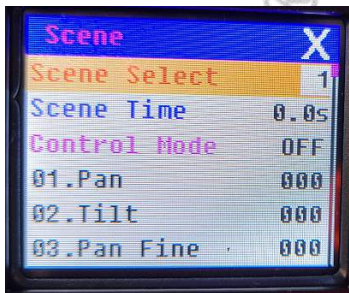
Picture 1



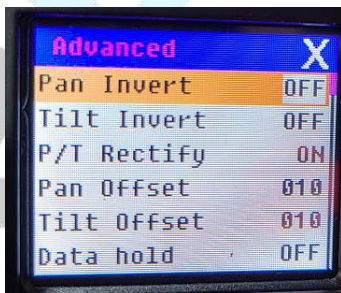
Picture 2



Picture 3



Picture 4



Picture 5



Picture 6

CAUTION: DO NOT USE SHARP OBJECTS ON SCREEN

4.2 Functions and Parameter Setup

4.2.1 Setting DMX Address

Press or choose "ADDR" to get into the set page. The range of DMX addresses available is 1-490 (22ch fixture), the code can't be higher than 491, otherwise the light can't be controlled properly.

-Follow the steps below to set address:

Get into the DMX interface like *picture 1* above, click the number to adjust manually. After clicking the parameter window will opened. You can drag the red bar to set DMX address or set the address by pressing "UP" and "DOWN" keys. Press ENTER key to save address.

4.2.2 Set Operating Mode

This function is used to select the operating mode. The light has four modes - DMX mode, auto run mode, sound active mode and master/slave mode. The detail for each option are as follows:

- **DMX Mode:** In this mode the fixture receives data from a DMX controller.
- **Auto run mode:** In this mode, the light will run the internal programs.
- **Sound active mode:** In this mode, the light is controlled by sound (sound is picked up from the internal microphone).
- **Scene Mode:** This mode is designed to manually test all the functions of the fixture from the display using manual control.
- **Master/Slave mode:** The master/slave option only can only be used in auto run mode or sound active mode. When this mode is off, the data won't be transferred to other lights by DMX; when it is on, the data of master fixture will be sent to slave fixture duplicating what the master fixture is doing.
- **Lamp ON/OFF:** This function is not available on LED fixtures.
- **Channel mode:** This fixture has only 1 channel mode

4.2.3 Display Menu

There are two language options -Chinese and English like *picture 3*.

- **Language:** Choose Chinese or English language
- **Screen Saver:** If there is no display activity in 10 seconds, the display will enter screen saver mode. When fixture is in "Mode 1", the screen turns off (black screen); when fixture is in "Mode 2", the screen will show the DMX address (DMX mode) or show mode icon (auto run or sound active mode), when screen saver is set to "OFF", the display will always show main menu.
- **Screen Rotation:** When the light is hung upside down, use this option to rotate menu 180°
- **DMX Indicate:**
- **Screen Light:** This function adjusts the screen brightness
- **Lock screen:** If screen is "OFF", then you need to press MENU---UP---DOWN---ENTER in sequence to unlock screen.

4.2.4 Scene/Manual Mode

This mode is to set the fixture in test mode like picture 4. The fixture does not receive DMX data when in this mode. The parameter on menu is related to the DMX channels value and you can control the fixture manually by adjusting the available values.

- Pan motor: Value (0~255)
- Tilt motor: Value (0~255)
- FOCUS motor: Value (0~255)
- COLOR: Value (0~255)
- GOBO: Value (0~255)
- PRISM: Value (0~255) when the prism is inserted, the prism rotation turns on
- FROST: Value (0~255)
- STROBE: Value (0~255)

4.2.5 Fixture Settings (Advanced)

Select ADVA to enter the advanced fixture menu like picture 5.

- **Pan Invert:** Switch the initial position and final position of Pan motor
- **Tilt Invert:** Switch the initial position and final position of Tilt motor
- **P/T Rectify:** If you choose this function, the pan or tilt motor will auto-correct if there is an error detected.
- **Pan Offset:** Set deviation angle of the X motor's initial position
- **Tilt Offset:** Set deviation angle of the Y motor's initial position
- **Lamp up when:** Set on-off state of lamp when power is on
- **Factory setting:** Reset all parameters to factory settings.

4.2.6 Fixture Status Screen

Select STAT to enter the fixture status menu like picture 6:

In this page, you can check the status as well software version of fixture,

- DMXClr: Make the DMX date be zero,
- SysRst: Motor reset,

5. DMX Channel Charts

22 Channels

Channel	Function	Value	Description
CH1	Pan	0-255	0-540°
CH2	Pan Fine	0-255	0-2° Fine Adjustment
CH3	Tilt	0-255	0-270°
CH4	Tilt Fine	0-255	0-1° Fine Adjustment
CH5	PT Spd	0-255	Fast to slow speed adjustment of pan/tilt
CH6	Dimmer	0-255	0-100% dimmer
CH7	Strobe	0-3	Shutter closed

		4-99	Pluse strobe slow to fast
		100-149	Fade In strobe slow to fast
		150-199	Fade Out strobe slow to fast
		200-249	Random strobe slow to fast
		250-255	Shutter open
CH8	Color	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	White + Color1
		80-89	Color 1 + Color 2
		90-99	Color 2 + Color 3
		100-109	Color 3 + Color 4
		110-119	Color 4 + Color 5
		120-129	Color 5 + Color 6
		130-255	Color Wheel Rotation (slow to fast)
CH9	Cyan	0-255	0-100% adjustment of Cyan
CH10	Magenta	0-255	0-100% adjustment of Magenta
CH11	Yellow	0-255	0-100% adjustment of Yello
CH12	CTO	0-255	CTO adjustment 0-255
CH13	Gobo	0-9	Open
		10-19	Gobo 1
		20-29	Gobo 2
		30-39	Gobo 3
		40-49	Gobo 4
		50-59	Gobo 5
		60-69	Gobo 6
		70-79	Gobo 7
		80-89	Gobo 8
		90-99	Gobo 9
		100-109	Shake slow to fast Gobo1
		110-119	Shake slow to fast Gobo2
		120-129	Shake slow to fast Gobo3
		130-139	Shake slow to fast Gobo4
		140-149	Shake slow to fast Gobo5
		150-159	Shake slow to fast Gobo6
		160-169	Shake slow to fast Gobo7
		170-179	Shake slow to fast Gobo8
		180-189	Shake slow to fast Gobo9
		190-223	Counterclockwise Rotation (fast to slow)
224-255	Clockwise Rotation (slow to fast)		
CH14	Rot Gobo	0-9	Open
		10-19	Gobo1

		20-29	Gobo2
		30-39	Gobo3
		40-49	Gobo4
		50-59	Gobo5
		60-69	Gobo6
		70-79	Gobo7
		80-89	Shake slow to fast Gobo 1
		90-99	Shake slow to fast Gobo 2
		100-109	Shake slow to fast Gobo 3
		110-119	Shake slow to fast Gobo 4
		120-129	Shake slow to fast Gobo 5
		130-139	Shake slow to fast Gobo 6
		140-149	Shake slow to fast Gobo 7
		150-200	Counterclockwise Rotation (fast to slow)
		201-255	Clockwise Rotation (slow to fast)
CH15	Gobo.Rot	0-127	0-360°
		128-190	Counterclockwise Rotation (fast to slow)
		191-192	Stop
		193-255	Clockwise Rotation (slow to fast)
CH16	Prism	0-127	Off
		128-255	Inert prism1
CH17	Prism Rot	0-127	0-360(degree)
		128-187	Counterclockwise Rotation (fast to slow)
		188-195	Stop
		196-255	Clockwise Rotation (slow to fast)
CH18	Frost	0-127	Off
		128-255	Insert frost
CH19	Focus	0-255	Far to near 0-255
CH20	Zoom	0-255	Large to Small
CH21	Reserved	0-255	NO FUNCTION
CH22	Reset	0-100	Off
		101-150	Reset Effect Motors - Hold 3 seconds
		151-200	Reset XY Motors - Hold 3 seconds
		201-255	Reset All Motors Hold 3 seconds

6. Technical Specifications

- **Input Voltage:** AC 110V-240V 50/60HZ
- **Light Source:** 1x250W White LED Module
- **Operation Modes:** DMX512, Auto program, Sound Active, & Master-Slave
- **Max Power Draw:** 300W
- **Power Link Between Fixtures:** Up to 4 units can be daisy-chained together
- **Dimmer:** 0-100% linear dimming control
- **Strobe:** 0-22Hz, synchronized, pulse effects
- **Static Gobo:** 9 static gobos + open
- **Rotating Gobo:** 7 rotating gobos + open
- **Prism:** 8 facet rotating prism
- **Color Wheel:** 6 colors + open
- **CMY:** Independent CMY control with linear color adjustment
- **CTO:** 2800K – 7800K CTO adjustment
- **Focus:** High-precision glass lenses, electronic linear HD focus
- **IRIS:** 5-100% iris control
- **Zoom Range:** 5°-25°
- **X-Axis:** 540° precision, fine-tuning precision 16-bit
- **Y-Axis:** 270° precision, fine-tuning precision 16-bit
- **Temperature Controlled Intelligent Cooling System**
- **DMX Channels:** 22 DMX Channels
- **Data connection:** 3-pin/ 5-pin XLR input/output & software update via DMX port
- **Display:** Touch-screen LCD display w/ 4 control buttons
- **IP Rating:** IP20 rated
- **Fixture Lifetime:** ≥ 20000 Hours
- **Weight:** 13.7 kg / 30.2 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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