


USER MANUAL
MAC 36PCS 3W LED MOVING HEAD BEAM WASH LIGHT

36x3W MAC MOVING BEAM WASH LIGHT MAC 101



USER MANUAL

 Caution: please read this user manual carefully before you initially start-up.

<http://www.forelite.cn>

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Thank you for using our product! Please read this manual carefully and completely. For technical reference in future, please keep this user manual well. This user manual contains all installation and operation information of this LED Moving Head Light, it's very useful for user to install and operate the light. Please strictly abide by the relevant instruction for the installation and operation.

This light has very beautiful appearance. This LED Moving Head is a very small and smart light. But the brightness is very powerful. It owns very good beam light, and very wonderful color mixing effect. As a mac light, it's small, but it runs extremely fast. This light is very suitable for bar, disco, stage, theatre, decoration etc.

This light meets the following criteria:

GB7000.1-2007/IEC60598-1:2003

GB7000.217-2008/IEC60598-2-17:1984+A2:1990

I PRODUCT MAIN FEATURES

36pcs high-power 3W CREE XP-E LED

Excellent mixed color system

Dimmer very smooth

Tight, punchy beam

Compact, silent design

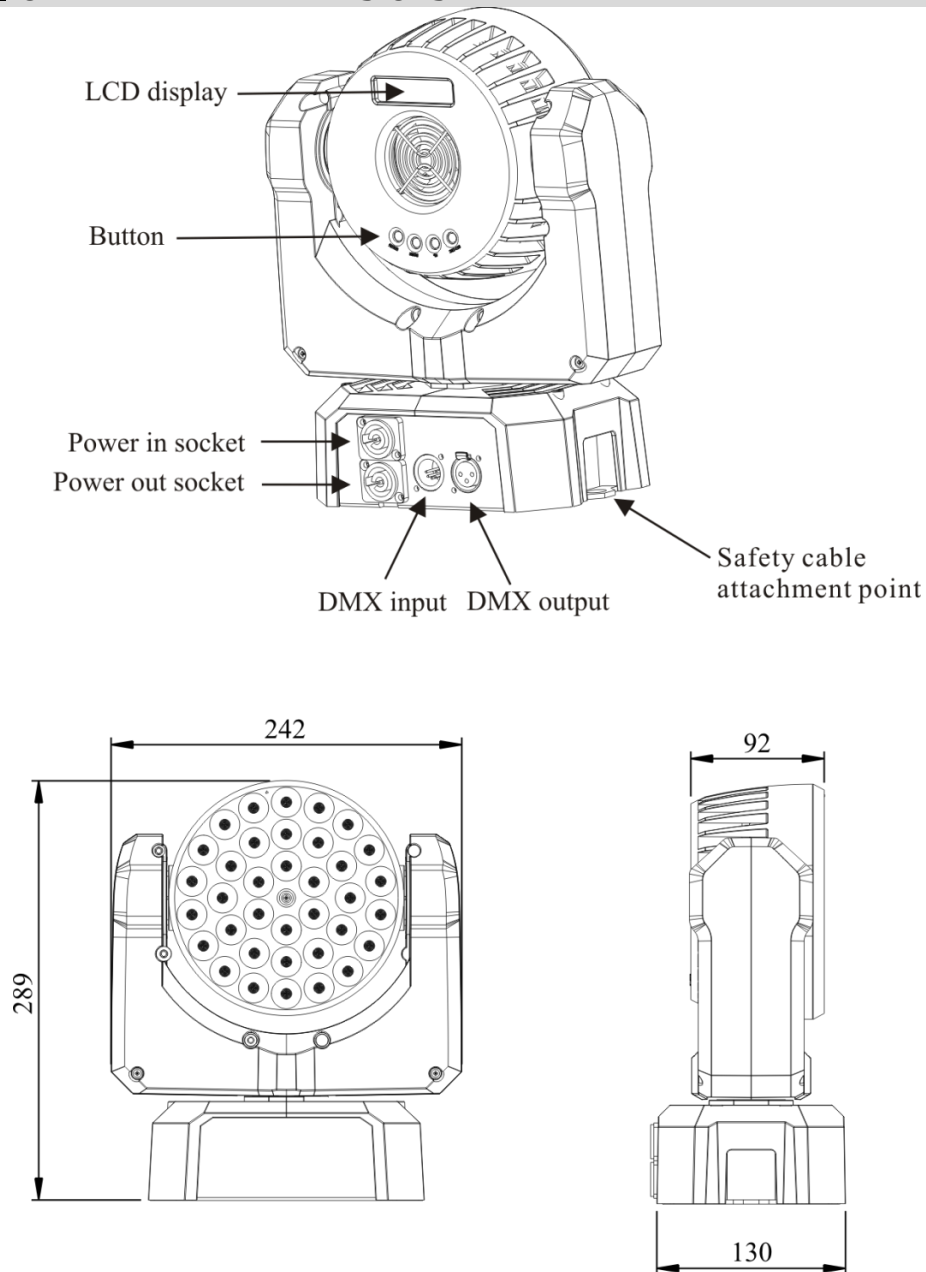
Move quickly

Blue LCD display

Standard DMX-512 communication protocol

Easy for power connection

II OVERVIEW AND DIMENSIONS



All dimensions are in millimeters

III SAFETY INFORMATION

※Important

Every person involved with the installation, operation and maintenance of this device has to be qualified and follow the instructions of this manual. Manufacturer will not with responsibility for those operations which are not according to this Instruction.

- Verify that the voltage matches the rated voltage.
- When the voltage is 110V , Do not connect more than 10 lightings in total to AC mains power in one interconnected daisy chain
- When the voltage is 220V , Do not connect more than 20 lightings in total to AC mains power in one interconnected daisy chain
- Before using the fixture, check that all power distribution equipment and cables are in perfect condition and rated for the current requirements of all connected devices.
- Always ground (earth) the fixture electrically.
- Avoiding hit the Light when you are move or install the light.
- The minimum distance between light-output and the illuminated surface must be more than 0.5 meters. Keep all combustibile materials (for example fabric, wood, paper) at least 0.2 meters away from the fixture.
- Do not expose the fixture to rain or moisture.
- Avoid looking directly into the light source (especially those who suffer from epileptic fits)
- Maximum ambient temperature (T_a) is 40°C. Do not operate fixture at temperatures higher than this.
- The Maximum surface temperature is 50°C
- When suspending the fixture above ground level, verify that the structure can hold at least 10 times the weight of all installed devices.

- Verify that all external covers and rigging hardware are securely fastened and use an approved means of secondary attachment such as a safety cable.

To determine the power requirements for a particular fixture, see the label affixed

to the back plate of the fixture or refer to the fixtures specifications chart. A fixture listed current rating is its average current draw under normal conditions. All fixtures must be directly powered off a switched circuit and cannot be run off a rheostat

(variable resistor) or dimmer circuit, even if the rheostat or dimmer source voltage matches the fixtures requirement. Check the fixture or device carefully to make sure that if a voltage selection switch exists that it sets to the correct line voltage you will use.

Warning! Verify that the voltage select switch on your unit matches the line voltage applied. Damage to your fixture may result if the line voltage applied does not match the voltage indicated on the voltage selector switch. All fixtures must be connected to circuits with a suitable Earth ground.

IV DMX PROTOCOL

MAC 101 has five Channels modes, including:

- HSV Mode 7 Channels Mode
- STAGE Mode 12 Channels Mode
- 9 Channels Mode
- 8 Channels Mode
- 5 Channels Mode

The default mode is STAG 12 Channels Mode. If you want to alter it, enter DMX Menu.

STAGE 12 CHANNELS MODE

Channel	Value	Function
CH1	000-019	Strobe Shutter open
	020-064	Strobe 1(fast to slow)
	065-069	Shutter open
	070-084	Strobe 2: opening pulse(fast to slow)
	085-089	Shutter open
	090-104	Strobe 3: closing pulse(fast to slow)
	105-109	Shutter open
	110-124	Strobe 4: random strobe(fast to slow)
	125-129	Shutter open
	130-144	Strobe 5: random opening pulse(fast to slow)
	145-149	Shutter open
	150-164	Strobe 6: random closing pulse(fast to slow)
	165-169	Shutter open
	170-184	Strobe 7: burst pulse(fast to slow)
	185-189	Shutter open
	190-204	Strobe 8: random burst pulse(fast to slow)
205-255	Shutter open	
CH2	000-255	Gobal dimmer 0~100%
CH3	000-255	Pan 0~540°/0~630°
CH4	000-255	Pan fine
CH5		Tilt

	000-255	0~240°
CH6	000-255	Tilt fine
CH7	Fixture control settings	
	000-009	No function
	010-014	Reset(hold for 8s)
	015-039	No function
	040-044	Normal motor speed
	045-049	Maximum motor speed
	050-054	Minimum motor speed
	055-059	No function
	060-064	Max. cooling fan speed
	065-069	No function
	070-074	Cooling fan speed thermostatically regulated
	075-109	No function
	110-114	Fast dimmer
	115-119	No function
	120-124	Smooth dimmer
	125-249	No function
250-255	Illuminate display	
	Color wheel	
	000-009	Dimmer channel enable
	010-014	Moroccan pink
	015-019	Pink
	020-024	Special rose pink
	025-029	Follies pink
	030-034	Fuchsia pink
	035-039	Surprise pink
	040-044	Congo Blue
	045-049	Tokyo Blue

CH8	050-054	Deep Blue	
	055-059	Just Blue	
	060-064	Medium Blue	
	065-069	Double CT Blue	
	070-074	Slate Blue	
	075-079	Full CT Blue	
	080-084	Half CT Blue	
	085-089	Steel Blue	
	090-094	Lighter Blue	
	095-099	Light Blue	
	100-104	Medium Blue Green	
	105-109	Dark Green	
	110-114	Primary Green	
	115-119	Moss Green	
	120-124	Fern Green	
	125-129	JAS Green	
	130-134	Lime Green	
	135-139	Spring Yellow	
	140-144	Deep Amber	
	145-149	Chrome Orange	
	150-154	Orange	
	155-159	Gold Amber	
	160-164	Millennium Gold	
	165-169	Deep Golden Amber	
	170-174	Flame Red	
	175-179	Open	
			Color wheel rotation effect
	180-201	Clockwise, fast to slow	
	202-207	Stop(this will stop wherever the color is at the time)	
	208-229	Counter-clockwise, slow to fast	

	230-234	Open Random Color
	235-239	Fast
	240-244	Medium
	245-249	Slow
	250-255	Open
CH9	000-255	Red dimmer 0~100%
CH10	000-255	Green dimmer 0~100%
CH11	000-255	Blue dimmer 0~100%
CH12	000-019 020-255	Color temperature control No function 10000K~2500K

STAGE 9 CHANNELS MODE

Channel	Value	Function
CH1	000-255	Red dimmer 0~100%
CH2	000-255	Green dimmer 0~100%
CH3	000-255	Blue dimmer 0~100%
CH4	000-255	Gobal dimmer 0~100%
CH6	000-255	Pan 0~540°/0~630° (the maximum angle base in the setting in menu)
CH5	000-019	Strobe Shutter open

	020-064	Strobe 1 (fast to slow)
	065-069	Shutter open
	070-084	Strobe 2 : opening pulse(fast to slow)
	085-089	Shutter open
	090-104	Strobe 3: closing pulse(fast to slow)
	105-109	Shutter open
	110-124	Strobe 4: random strobe(fast to slow)
	125-129	Shutter open
	130-144	Strobe 5: random opening pulse(fast to slow)
	145-149	Shutter open
	150-164	Strobe 6: random closing pulse(fast to slow)
	165-169	Shutter open
	170-184	Strobe 7: burst pulse(fast to slow)
	185-189	Shutter open
	190-204	Strobe 8: random burst pulse(fast to slow)
	205-255	Shutter open
CH6	000-255	Pan 0~540°/0~630°
CH7	000-255	Pan fine
CH8	000-255	Tilt 0~240°
CH9	000-255	Tilt fine

STAGE 8 CHANNELS MODE

Channel	Value	Function
CH1	000-255	Red dimmer 0~100%
CH2	000-255	Green dimmer 0~100%
CH3	000-255	Blue dimmer 0~100%
CH4	000-255	Gobal dimmer 0~100%

CH5	000-255	Pan 0~540°/0~630° (the maximum angle base in the setting in menu)
CH6	000-255	Pan fine
CH7	000-255	Tilt 0~240°
CH8	000-255	Tilt fine

STAGE 5 CHANNELS MODE

Channel	Value	Function
CH1	000-255	Red dimmer 0~100%
CH2	000-255	Green dimmer 0~100%
CH3	000-255	Blue dimmer 0~100%
CH4	000-255	Pan 0~540°/0~630° (the maximum angle base in the setting in menu)
CH5	000-255	Tilt 0~240°

HVS 7 CHANNELS MODE

Channel	Value	Function
CH1	000-255	Hue 0~100%
CH2	000-255	Saturation 0~100%

CH3	000-255	Value 0~100%
CH4	000-255	Pan 0~540°/0~630° (the maximum angle base in the setting in menu)
CH5	000-255	Pan fine
CH6	000-255	Tilt 0~240°
CH7	000-255	Tilt fine

V CONTROL PANEL AND MENU

SET/ESC: Call the main menu, or escape the current menu (i.e. return to the upper menu and give up the selected item or parameter).

UP: Browse the menu item forward or increase the parameter.

DOWN: Browse the menu item backward or decrease the parameter.

ENTER: Confirm the selected item or parameter (i.e. enter the next menu, or escape the current menu and save the selected item or parameter)

Menu navigation

① SET menu ← SET/ESC ← Addr:001(DMX mode) → ENT → DMX menu ②

UP ↑ DOWN ↓

SET menu ← SET/ESC ← ManualDimmer → ENTER → Manualdimmer menu ③

UP ↑ DOWN ↓

SET menu ← SET/ESC ← Red → ENTER → null

UP ↑ DOWN ↓

SET menu ← SET/ESC ← Green → ENTER → null

UP ↑ DOWN ↓

SET menu ← SET/ESC ← Blue → ENTER → null

UP ↑ DOWN ↓

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SET menu←SET/ESC←Yellow→ENTER→null
UP↑↓DOWN

SET menu←SET/ESC←Cyan→ENTER→null
UP↑↓DOWN

SET menu←SET/ESC←Purple→ENTER→null
UP↑↓DOWN

SET menu←SET/ESC←PureWhite→ENTER→null
UP↑↓DOWN

SET menu←SET/ESC←Amber→ENTER→null
UP↑↓DOWN

SET menu←SET/ESC←AllWhite→ENTER→null
UP↑↓DOWN

SET menu←SET/ESC←3200K→ENTER→null
UP↑↓DOWN

SET menu←SET/ESC←5600K→ENTER→null
UP↑↓DOWN

SET menu←SET/ESC←6500K→ENTER→null
UP↑↓DOWN

SET menu←SET/ESC←8500K→ENTER→null
UP↑↓DOWN

SET menu←SET/ESC←10000K→ENTER→null
UP↑↓DOWN

SET menu←SET/ESC←Change Color→ENTER→Motor Run Menu④
UP↑↓DOWN

SET menu←SET/ESC←Twinkling→ENTER→Motor Run Menu
UP↑↓DOWN

SET menu←SET/ESC←Fade→ENTER→Motor Run Menu
UP↑↓DOWN

SET menu←SET/ESC←Macro→ENTER→Macro menu⑤
UP↑↓DOWN

①SET menu

SET Menu:

└Reset Machine

- | └Reset:ON ;Reset the machine
- | └Reset:OFF ;Do not reset the machine (default)

└Load Parameter

- | └Load ON ;Restore factory settings

- | └Load OFF ;Do not restore factory settings (default)

└Master / Alone

- | └Master Mode

- | └Alone Mode ;(default)

└Auto / Sound

- | └Auto Mode

- | └Sound Mode

- └MIC Sense:00~99% ;(default:20)

└TC Switch; Temperature control, it will reduce the output

- | └TC Switch Mask after over temperature

- | | └Switch ON; Enable the switch (default)

- | | └Switch OFF; Disable the switch

- | └TC Switch Temp ;(password protected)

- | | └TC Temp Cap;; Capture the current temperature

- | | └TC Temp Set;; Set the value of the TC switch

└Scan setting

- | └Reverse Pan

- | | └Reverse Pan:ON

- | | └Reverse Pan:OFF ;(default)

- | └Reverse Tilt

- | | └Reverse Tilt:ON

- | | └Reverse Tilt: OFF ;(default)

- | └Pan Degree ;Set the max angle rage of the Pan

- | | └Pan Degree: 630

- | | └Pan Degree: 540 ;(default)

- | └Scan BlackOut

- | | └ScanBlackOut:ON ;Black out while the motor runs

- | | └ScanBlackOut:OFF ;(default)

- | ↳Feed back
- | ↳Feed Back: ON ;Enable pan/tilt position feedback ;(default)
- | ↳Feed Back: OFF ;Disable the feedback
- ↳Dimmer Curve
- | ↳Square Law ;(default)
- | ↳Inv Square Law
- | ↳S-Vurve
- ↳Dimmer Speed
- | ↳Dimmer: Smooth ;(default)
- | ↳Dimmer: Fast
- ↳Dmx Reset
- | ↳Enabled ;Enable reset via DMX ;(default)
- | ↳Disabled ;Disable reset via DMX
- ↳Fan ;Fan speed
- | ↳Regulated ;Thermostatically regulated (default)
- | ↳Full ;Max, cooling fan speed
- ↳Information
- ↳Time:tt/mm/ss
- ↳Date:mm/dd/yy
- ↳Use Time: hour: minute

②DMX menu

DMX Menu:; DMX mode

- ↳DMX Address: 001; Set DMX address
- ↳No DMX Signal; Run if there is no DMX signal
- | ↳Stop Run ;(default)
- | ↳Hold Run
- | ↳Auto Run
- | ↳Sound Run

- ↳DMX Channels
- ↳HVS Mode
- ↳STAGE Mode
- ↳12 Channels ;(default)
- ↳9 Channels
- ↳8 Channels
- ↳5 Channels

③Macro menu

Macro Menu:; Programmable auto program

- ↳Motor Run ; Motor automatically run or not
- | ↳Auto Run: OFF ; Motor do not run
- | ↳Auto Run: ON ; Motor automatically run
- ↳Step Quantity: 3 ; 0~62 steps (default:3)
- ↳Program Step 01; Select one built-in program for the 1st step of
- | ↳ChangeColor the macro
- | ↳Twinkling
- | ↳Fade
- |
- ↳Program Step 62

④Motor Run Menu

Motor Menu:

- ↳Motor Run ; Motor automatically run or not
- ↳Auto Run: OFF ; Motor do not run
- ↳Auto Run: ON ; Motor automatically run

⑤ Manual Dimmer menu

ManualDimmer:

└Light Switch

| └Light ON ;(default)

| └Light OFF

└Light Red: 255 ; Red dimmer 0~255(default: 255)

└Light Green: 255 ; Green dimmer 0~255(default: 255)

└Light Blue: 255 ; Blue dimmer 0~255(default: 255)

└Light Strobe:000

└Scan Pan: 0 ;(default: 0)

└Scan Tilt: 0 ;(default: 0)

└Scan PanFine:000 ;(default: 0)

└ScanTiltFine:000 ;(default: 0)

└Light Calibrate

└Cal Pan:-128~+127; Pan calibration

└Cal Tilt:-128~+127

Effect: strobe, fade, color wheel

Beam angle: 8°

Rotation Angle: Pan 540°/630°,Tilt 240°,self-correcting

Channel quantity: 7, 8, 9, 12

Control mode: DMX512. Master/slave. Sound active

Protection grade: IP20

Working environment: indoor

Environment temperature: -30~+40°C

Size: L242*W130*H289mm

Weight: 3.7kg

VI TECHNICAL SPECIFICATION

Rated voltage: 100~240V

Rated frequency: 50/60Hz

Power: 105W

LED: 3W CREE-XP LED

LED lifespan: 50,000hours

LED quantity: 12Red +12Green +12Blue

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