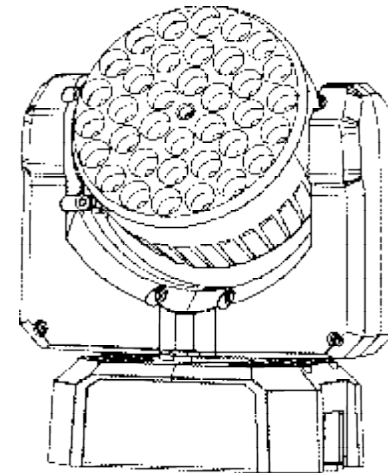

LED Moving head User manual



WJ-LM-2013

& Please read the manual before installing and using this lighting
Keep it for future reference

Introduction

Thank you for using our products!

WJ-LM-2013 is a very small and light LED Moving head light, its weight is only 3.6 kg. Its beam is very narrow and very bright . It runs extremely fast. It is suitable for bar, disco, stage , decoration ,etc .

This product complies with the following standards:

IEC60598-1:2003

IEC60598-2-17:1984+A2:1990

Main features

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

Excellent mixed color system

Linear colour temperature adjustment, dimmer very smooth

Calibrate colors function

Tight, punchy beam

compact, silent design

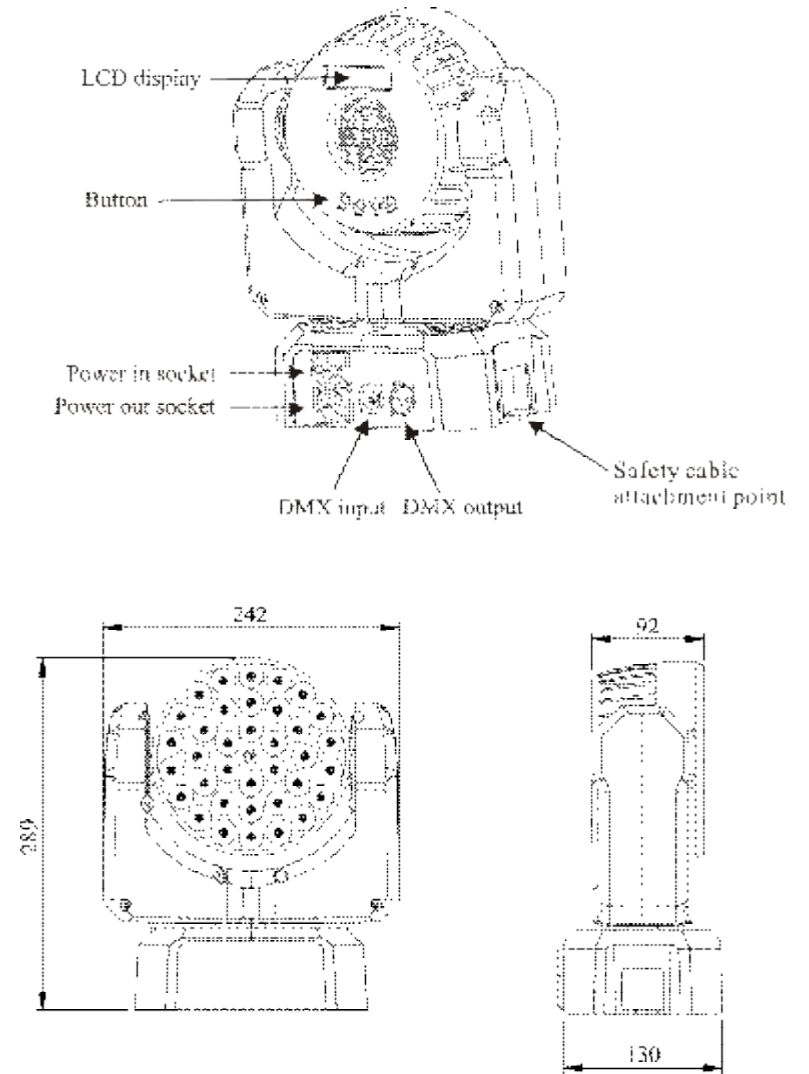
Speedly

Blue LCD display

Standar DMX-512 communication protocol

Easy for power connection

Overview and Dimensions



All dimensions are in millimeters

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 operation 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 combustible 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 (Ta) 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

└Cal Tilt:-128~+127

Technical parameters

Rated voltage: 100~240V

Rated frequency: 50/60Hz

Power: 120W

LED: 3W CREE XP-E

LED lifespan: about 50, 000hours

LED quantity: 12R+12G+12B

Color mixing: R: 0~255, G: 0~255 , B: 0~255

Effect: strobe, fade , color wheel

Beam angle: 8°

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

Channel quantity: 5, 7, 8, 9, 12

Control mode: DMX512, Master/slave, Sound actived

Protection grade: IP20

Working environment: indoor

Environment temperature: -30~+40°C

Size: L242*W130*H289mm

Weight: 3.6kg

③Macro menu

Macro Menu:

- └Step Quantity:62
- └Program Step 01
 - | └ChangeColor
 - | └Twinkling
 - | └Fade
 - |
- └Program Step 62

④ManualDimmer menu

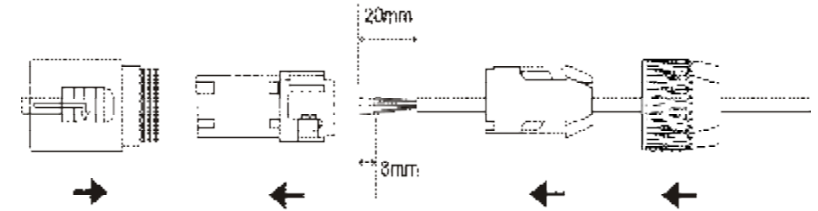
ManualDimmer:

- └Light Switch
 - | └Light ON
 - | └Light OFF
- └Light Red:000
- └Light Green:000
- └Light Blue:000
- └Light Strobe:000
- └Scan Pan:128
- └Scan Tilt:128
- └Scan PanFine:000
- └ScanTiltFine:000
- └Light Calibrate
 - └Cal Pan:-128~+127

use an approved means of secondary attachment such as a safety cable.

Power connection

Installing a Neutrik connector on a power cable



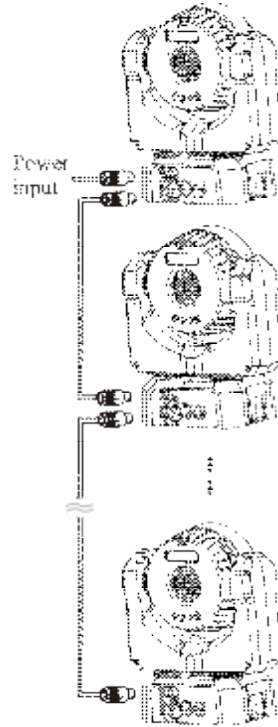
- Ø The blue NAC3FCA connector is the power input connector, the light gray connector is the power output connector
- Ø Select a three conductor 2.5mm² power cable
- Ø Install the Neutrik connector on the power cable , the below table shows the color-coding schemes and some possible pin identification schemes; if pins are not clearly identified , or if you have any doubts about proper installation , consult a qualified electrician

Wire color	Conductor	Symbol
Brown	Live	L
Blue	Neutral	N
Yellow/green	ground	⏏

Relaying power to other devices

The lightings can be linked in a chain by power cables which installed a blue and a light-gray connectors on the two ends. the light-gray connector connects to the power out socket of the first lighting , and the blue connector connects to the power in socket of the subsequent lighting, and so on.

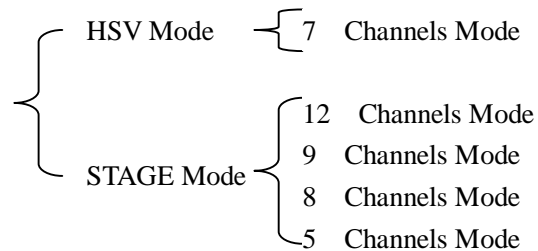
- n The power cable must is a three-conductor 2.5mm² cable
- n When the voltage is 110V , Do not connect more than 10 lightings in total to AC mains power in one interconnected daisy chain
- n When the voltage is 220V , Do not connect more than 20 lightings in total to AC mains power in one interconnected daisy chain



- | ↳Feed Back
 - | ↳Feed Back:ON
 - | ↳Feed Back:OFF
- ↳Dimmer Curve
 - | ↳Square Law
 - | ↳Inv Square Law
 - | ↳S-Vurve
- ↳Dimmer Speed
 - | ↳Dimmer: Smooth
 - | ↳Dimmer: Fast
- ↳Dmx Reset
 - | ↳Enabled
 - | ↳Disabled
- ↳Fan
 - | ↳Regulated
 - | ↳Full
- ↳Information
 - | ↳Time:tt/mm/ss
 - | ↳Date:mm/dd/yy
 - | ↳Use Time :hour: minute

DMX protocol

LM-2011 has five Channels modes , including:



②DMX menu

- DMX Menu:
 - ↳DMX Address: 001
 - ↳No DMX Signal
 - | ↳Stop Run
 - | ↳Hold Run
 - | ↳Auto Run
 - | ↳Sound Run
 - ↳DMX Channels
 - ↳HSV Mode
 - ↳STAGE Mode
 - | ↳12 Channels
 - | ↳9 Channels
 - | ↳8 Channels
 - | ↳5 Channels

①SET menu

SET Menu:

- ├Reset Machine
 - | └Reset:ON
 - | └Reset:OFF
- ├Load Parameter
 - | └Load ON
 - | └Load OFF
- ├Master / Alone
 - | └Master Mode
 - | └Alone Mode
- ├Auto / Sound
 - | └Auto Mode
 - | └Sound Mode
- ├MIC Sense:00~99%
- ├TC Switch
 - | └TC Switch Mask
 - | | └Switch Mask ON
 - | | └Switch Mask OFF
 - | └TC Switch Temp
 - | | └TC Temp Cap
 - | | └TC Temp Set
- ├Scan Setting
 - | └Reverse Pan
 - | | └Reverse Pan :ON
 - | | └Reverse Pan :OFF
 - | └Reverse Tilt
 - | | └Reverse Tilt:ON
 - | | └Reverse Tilt:OFF
 - | └Pan Degree
 - | | └Pan Degree:630
 - | | └Pan Degree:540
 - | └Scan BlackOut
 - | | └ScanBlackOut:ON
 - | | └ScanBlackOut:OFF

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

STAGE 12 channels mode

Channel	Value	Function
CH1		strobe
	000-019	shutter open
	020-064	strobe1(fast to slow)
	065-069	shutter open
	070-084	strobe2:opening pulse(fast to slow)
	085-089	shutter open
	090-104	strobe3: closing pulse (fast to slow)
	105-109	shutter open
	110-124	strobe4:random strobe(fast to slow)
	125-129	shutter open
	130-144	strobe5:random opening pulse(fast to slow)
	145-149	shutter open
	150-164	strobe6: random closing pulse (fast to slow)
	165-169	shutter open
	170-184	strobe7:burst pulse(fast to slow)
185-189	shutter open	
190-204	strobe8: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° (the maximum angle base in the setting in menu)
CH4	000-255	Pan fine
CH5:	000-255	Tilt 0~240°

CH6:	000-255	Tilt fine
CH7	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 trermostatically regulated
	075-109	No function
	110-114	Fast dimmer
	115-119	No function
	120-124	Smooth dimer
	125-249	No function
250-255	Illuminate display	
CH8		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
	050-054	Deep Blue
	055-059	Just Blue
	060-064	Medium Blue
	065-069	Double CT Blue
	070-074	Slate Blue

Menu

Menu navigation

- ①SET menu←SET←Addr:001(DMX mode) →ENT→DMX menu②
 UP ↑ ↓ DN
- SET menu←SET←ManualDimmer→ENT→Manualdimmer menu③
 UP ↑ ↓ DN
- SET menu←SET←Red →ENT→null
 UP ↑ ↓ DN
- SET menu←SET←Green →ENT→null
 UP ↑ ↓ DN
- SET menu←SET←Blue →ENT→null
 UP ↑ ↓ DN
- SET menu←SET←Yellow→ENT→null
 UP ↑ ↓ DN
- SET menu←SET←Cyan →ENT→null
 UP ↑ ↓ DN
- SET menu←SET←Purple→ENT→null
 UP ↑ ↓ DN
- SET menu←SET←PureWhite→ENT→null
 UP ↑ ↓ DN
- SET menu←SET←Amber →ENT→null
 UP ↑ ↓ DN
- SET menu←SET←AllWhite→ENT→null
 UP ↑ ↓ DN
- SET menu←SET←3200K→ENT→null
 UP ↑ ↓ DN
- SET menu←SET←5600K→ENT→null
 UP ↑ ↓ DN
- SET menu←SET←6500K→ENT→null
 UP ↑ ↓ DN
- SET menu←SET←8500K→ENT→null
 UP ↑ ↓ DN
- SET menu←SET←10000K→ENT→null
 UP ↑ ↓ DN
- SET menu←SET←ChangColor→ENT→null
 UP ↑ ↓ DN
- SET menu←SET←Twinkling→ENT→null
 UP ↑ ↓ DN
- SET menu←SET←Fade→ENT→null
 UP ↑ ↓ DN
- SET menu←SET←Macro →ENT→Macr menu④
 UP ↑ ↓ DN

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

Button

- SET:** 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)

	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
	180-255	No function
CH9	000-255	Red dimmer 0~100%
CH10	000-255	Green dimmer 0~100%
CH11	000-255	Blue dimmer 0~100%
CH12	000-019	No function
	020-255	100000K → 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%
CH5	000-009	strobe No function
	010-149	Strobe
	150-199	Fast in slow out
	200-249	Slow in fast out
	250-255	No function
CH6:	000-255	Pan 0~540° /0~630° (the maximum angle base in the setting in menu)
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°