# 18pcs 4in1 Indoor LED Par Light

PAR-MPI1820D



**CE RoHS** 

**User Manual** 

Please read this user manual before using this product!

Keep it for further reference!

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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 pAR 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. Combining the features of the LED energy-saving and environment-protective, using high efficiency constant current & new heat dissipation technology, 4096 Grey Scale adjusted and create revise technology to make the dimmer to be more smoothly. This par light is applying for the big show, stage, theatre, and other indoor places.

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

·Advantages of LED technology extremely long life, energy-saving and environment-protective;

'Low power consumption, minimal heat emission, maintenance free with brilliant light radiation;

'Equipped with 18pcs 12W RGBW 4-in-1 LEDs;

'Continuous RGBWAUV color changing;

'DMX-controlled operation or stand alone operation with master/slave function;

- 'Have three kinds of strobe effect(random strobe, pulse-effect in sequences, strobe effect);
- 'Rainbow-effect with adjustable speed;
- 'DMX-control via every standard DMX controller.

## **II OVERVIEW AND DIMENSIONS**



All dimensions are in millimeters

#### **III SAFETY INFORMATION**

## **XImportant**

02

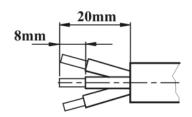
Every person involved with the installation, operation and maintenance of this device has to be qualified and follow the instructions of this manual. Manufacturer will not with responsibility for those operations which are not according to this Instruction.

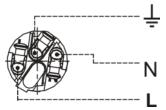
- Verify that the voltage matches the rated voltage.
- When the voltage is 110V, Do not connect more than 10 lightings in total to AC mains power in one interconnected daisy chain

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

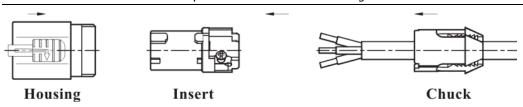
# IV POWER CONNECTION

## Installing a Nenutrik Connector on a Power Cable





03



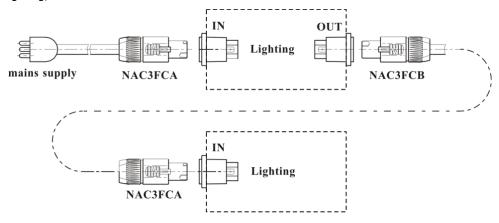
Put bushing and chuck onto the cable.

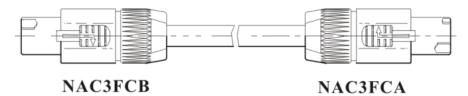
Prepare cable as shown above. The power cable must is a three-conductor 2.5mm<sup>2</sup> cable. Insert the wire into the terminals and fasten the clamping device by a flat screw driver. Push insert and chuck into housing (pay attention to the guiding keyway). Fasten bushing.

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.

#### 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.





The power cable must is a three-conductor 2.5mm<sup>2</sup> cable.

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.

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

#### **PHYSICAL INSTALLATION**

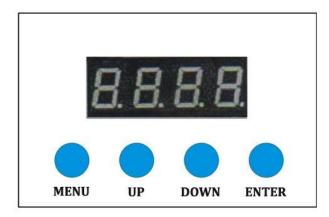
This lighting can be placed on a horizontal surface such as a stage or clamped to a truss or similar rigging structure in any orientation using a rigging clamp.

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.

#### V CONTROL PANNEL

#### **BUTTON**



**SET/MENU** 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 into the next menu, or escape the current menu and save the selected item or parameter).

#### **INDICATOR**

There are 4 dots at the bottom of the digital tube, from left to right as:

- 1. DMX signal LED indicator;
- 2. Memory writing indicator, (Press **ENTER** after amending the DATA, This Dot will be light up, it means the Data is saving);
- 3. Power indicator;
- 4. Keyboard available indicator.

#### MAIN MENU

Press **SET/MENU** to turn the sub-menu

DISPLAY	FUNCTION	OPERATION
06	DMX mode(the "A" will flash	When show "A.***", press <b>ENTER</b>
	when control mode not	button, the "***" will flash, then press
A.***	confirmed, the "." will not flash	UP/DOWN to adjust the DMX address
A. · · ·	under in slave mode, "***" will	value, then press <b>ENTER</b> keep the
	flash when the DMX address is	setting.
	not confirmed.	
	Gradual change automatic	Press <b>SET</b> button choose "AF.**", then
	running mode(**is the running	press ENTER button change into
AF.**	speed, from 1-99.)	gradual change automatic mode, then
7 11 1		press <b>ENTER</b> button, the "**" will flash,
		then press <b>UP/DOWN</b> button to adjust
		the speed which you need.
	Jump change automatic	Press <b>SET</b> button choose "AL.**", then
	running mode(**is the running	press <b>ENTER</b> button change into jump
AL.**	speed, from 1-99.)	change automatic mode, then press
712		ENTER button, the "**" will flash, then
		press <b>UP/DOWN</b> button to adjust the
		speed which you need.
	Sound active running	Press <b>SET</b> button choose "MS.**", then
	mode(**is the sensitivity value,	press <b>ENTER</b> button change into sound
MS.**	from 0-99-FL.)Note: only some	active mode, then press <b>ENTER</b> button,
	item has sound active function	the "**" will flash, then press
		UP/DOWN button to adjust the speed
		which you need.
	Red signal cyclorama running	Press <b>SET</b> button choose "d1.**", then
	mode(**is the LEDx dimmer	press <b>ENTER</b> button change into red
d1.**	value 0-99-FL	signal cyclorama mode, then press
		ENTER button, the "**" will flash, then
		press <b>UP/DOWN</b> button to adjust the
		brightness which you need.

press UP/DOWN button to adji brightness which you need.  Blue signal cyclorama running mode(**is the LEDx dimmer value 0-99-FL  White signal cyclorama running mode(**is the LEDx dimmer value 0-99-FL  White signal cyclorama running mode(**is the LEDx dimmer value 0-99-FL  White signal cyclorama running mode(**is the LEDx dimmer value 0-99-FL  White signal cyclorama running mode(**is the LEDx dimmer value 0-99-FL  Strobe running mode(**is the Press SET button choose "d4.**", then press UP/DOWN button to adjust the brightness which you need.  Strobe running mode(**is the Press SET button choose "dF.**", then				
d2.**  value 0-99-FL  signal cyclorama mode, then press  ENTER button, the "**" will flas: " n press UP/DOWN button to adji brightness which you need.  Press SET button choose "d3.**", then press UP/DOWN button to adjust the brightness which you need.  White signal cyclorama running mode(**is the LEDx dimmer value 0-99-FL  White signal cyclorama running mode(**is the LEDx dimmer value 0-99-FL  White signal cyclorama running mode(**is the LEDx dimmer value 0-99-FL  Strobe running mode(**is the strobe speed 0-99-FL  DESCRIPTION DESCRIPTION  Strobe running mode(**is the strobe speed 0-99-FL  DESCRIPTION DESCRIPTION  DESCRIPTI		Green signal cyclorama running	Press <b>SET</b> button choose "d2.**", then	
Blue signal cyclorama running mode(**is the LEDx dimmer value 0-99-FL  White signal cyclorama running mode(**is the LEDx dimmer value 0-99-FL  White signal cyclorama running mode(**is the LEDx dimmer value 0-99-FL  White signal cyclorama running mode(**is the LEDx dimmer value 0-99-FL  White signal cyclorama running mode(**is the LEDx dimmer value 0-99-FL  Strobe running mode(**is the strobe speed 0-99-FL  GF.**  Write signal cyclorama running mode(**is the strobe speed 0-99-FL  Strobe running mode(**is the strobe speed 0-99-FL  GF.**  L.***  Current temperature of the led lamp board(*C*)  V.***  Version of software  H.on/H.of F  ENTER button, the "**" will flash, then press ENTER button to adjust the speed which you need.  Press SET button choose "dF.**", then press ENTER button choose "dF.**", then press ENTER button to adjust the brightness which you need.  L.***  Current temperature of the led lamp board(*C*)  Version of software  Lose DMX setting(on means keep the last value, oFF means delay reset  Press SET button to choose H.on/H.off, then press ENTER, the on/off is flash, press UP/DOWN to choose the function which you need, then press		mode(**is the LEDx dimmer	press <b>ENTER</b> button change into green	
Blue signal cyclorama running mode(**is the LEDx dimmer value 0-99-FL  White signal cyclorama running mode(**is the LEDx dimmer value 0-99-FL  White signal cyclorama running mode(**is the LEDx dimmer value 0-99-FL  White signal cyclorama running mode(**is the LEDx dimmer value 0-99-FL  White signal cyclorama running mode(**is the LEDx dimmer value 0-99-FL  Strobe running mode(**is the strobe speed 0-99-FL  Strobe running mode(**is the strobe speed 0-99-FL  White signal cyclorama running mode(**is the strobe speed 0-99-FL  Strobe running mode(**is the strobe speed 0-99-FL  Strobe running mode(**is the strobe speed 0-99-FL  DESCRIPTION TO SET TO SET	42 **	value 0-99-FL	signal cyclorama mode, then press	
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### Current temperature of the led lamp board(*\tilde{\tau})  ### Current temperature of the led lamp board(*\tilde{\tau})  ### Version of software    H.on/H.oF   F	42 **	value 0-99-FL	signal cyclorama mode, then press	
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H.on/H.oF F  keep the last value, oFF means delay reset  then press ENTER, the on/off is flash, press UP/DOWN to choose the function which you need, then press	V.***	Version of software		
H.on/H.oF F delay reset press <b>UP/DOWN</b> to choose the function which you need, then press		Lose DMX setting(on means	Press <b>SET</b> button to choose H.on/H.off,	
F delay reset press <b>UP/DOWN</b> to choose the function which you need, then press	H on/H oF	keep the last value, oFF means	then press <b>ENTER</b> , the on/off is flash,	
function which you need, then press		delay reset	press <b>UP/DOWN</b> to choose the	
ENTER save.	'		function which you need, then press	
			ENTER save.	

Under DMX mode, the last "." flicker means the signal connection succeed.

Under other master mode, the last "." keep light;

When color temperature control error, the "...." keep light on.

## VI DMX PROTOCOL

СН	Value	Function
CH1	000←→255	Dimmer, 0~100%
CH2	000←→255	Red dimmer, 0-100%
CH3	000←→255	Green dimmer, 0-100%
CH4	000←→255	Blue dimmer, 0-100%
CH5	000←→255	White dimmer, 0-100%
		Strobe
CH6	000←→004	No strobe
	005←→255	Strobe, from slow to fast
		Color change
	000←→009	No Function
	010←→026	Preset Color 1
	027←→043	Preset Color 2
	044←→060	Preset Color 3
	061←→077	Preset Color 4
	078←→094	Preset Color 5
	095←→111	Preset Color 6
CH7	112←→128	Preset Color 7
	129←→145	Preset Color 8
	146←→162	Preset Color 9
	163←→179	Preset Color 10
	180←→196	Preset Color 11
	197←→213	Preset Color 12
	214←→230	Preset Color 13
	231←→247	Preset Color 14
	248←→255	Preset Color 15

<u> </u>			
_		Macro Function	
	000←→004	No Function	
CH8	005←→100	Skip	
	101←→200	Slip	
	201←→255	Audio	
CH9	000←→255	Speed, Skip or Slip speed	Ī

Note: under DMX512 mode, there is no light setting into master/sound active/strobe mode, if not, the signal will mutual interference. Press SET when power on, the display shows Axxx OR Sxxx means the light under DMX 512 mode, if shows other information means the light is not under DMX 512 mode.

## VII TECHNICAL SPECIFICATION

#### **Light Sources**

'LED: 18pcs 12W 4in1 RGBW LEDs

·Lifespan: 500,000h

'Color: RGBW color mixing

## **Optics**

'Beam angle: 25degree(45degree is optional)

'Dimmer: 0-100% linear dimmer

·Strobe: 1-25 times/second

## **Light Output**

'Optimal projection distance: 4-15m

'Grey scale: 4096degree

#### Control

'Control mode: DMX-512 mode, Auto mode, Master/slave mode

'DMX channel: 4CH, 9CH

·Display of control panel: digital tube + buttons

'Effect: 0~100% dimmer, strobe, color change, color fade

## **Power Supply**

Related voltage: AC100V-240V, 50/60Hz

'Related power: 180W

#### Construction

'Body dimension: D315\*W295\*H248mm

Net weight: 3kgShell color: black

'Shell material: Aluminum die casting housing

#### **Working Environment**

'Working temperature: -25-40°C

·Cooling: Fan

'Protection rating: IP20

Innovation, Quality, Performance, Achieving Users' Value!