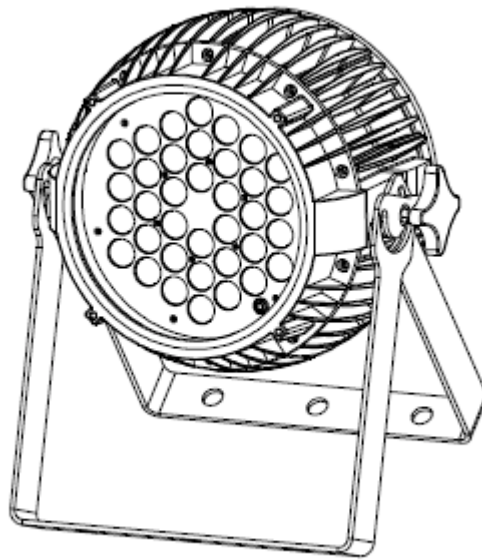




USER MANUAL

(NPZ336-RGBAW)



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Please read over this manual before operating the light

1. Summarization

➤ Summarization

Thank you for purchasing our LED PAR lighting. Please read these instructions carefully before begin and operate the fixtures according to these instructions to avoid any possible damages and accidents causes by misuseage.

➤ Product introduction

This led par light is covered by high strength die-casting aluminum which is able to endure high temperature, designed in a fashion of hydrodynamic form. It takes uses high power R,G,B,W,A 5 kinds LED. It uses power switch, performs low weight and consumption, stable capability and long life. The built-in program includes dimmer, strobe, zooming and so on. International standard DMX 512 signal is requested.

➤ Packing List

- NPZ336 1 PC
- DMX Signal Cable 1 PC
- IP65 Input power cable 1 PC
- User Manual
- Warranty Card

2. Safety Instruction

➤ Safety Notes

! Enquire the skilled people before any repair;

! Always make sure disconnect from the power source before setting up, serving and moving;.

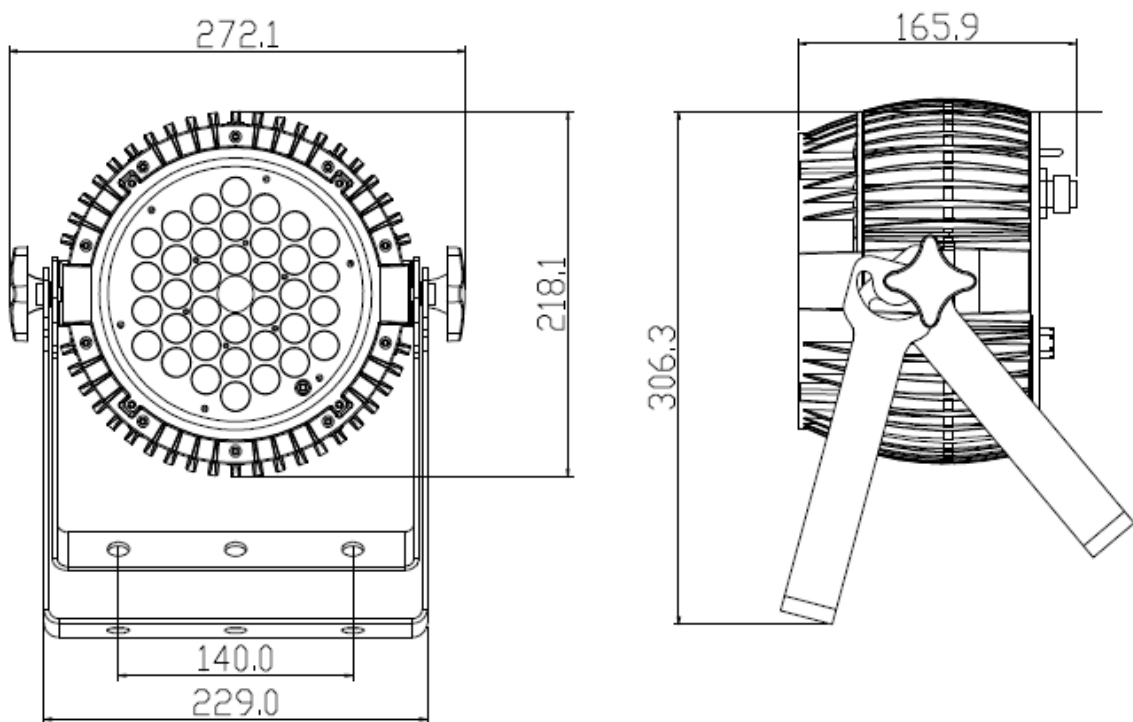
! Avoid direct eye exposure to the fixture when it is on;



➤ Safety instuction

- Make sure the power supply voltage are consistent with this lights, Ensure the use of voltage is in the range of the request technical parameter.
- before the installation , please check the light's fasteners and mechanical structure have been received in good condition and appear no damage.
- This light is designed for indoor use, working temperature is lower than 45 degree.
- The fixtures maybe mounted in any position provided there is adequate room for ventilation. Make sure there are no inflammable and explosive items(ornaments) in 0.5 meters away.
- Yellow / green cabling earthling safety; no flicker when the fixture is working on.

3. Outside Size Picture



4. Main Function

- high quality LED: low consumption, brightness, stable capability and long life
- each color of LED with 16666 dimming, RGB can make over 16.7 million colors
- Linear dimming 0%-100%,function of strobe
- DMX512 Controller, 4 button set DMX address with led display

- auto run /master slave/interconnected multi-machine control
- using switch power supply to protect the LED to work well
- Built-in temperature control function, which will be reduce the output power intelligently when LED is too hot.
- beam angle: 10°-40°zoom
- Protected rate: IP65
- DMX512 channels: optional

5. DMX Control Function

11 Channel

Channel	Value	Function
CH1	0—255	General Dimming
CH2	0—255	Red
CH3	0—255	Green
CH4	0—255	Blue
CH5	0—255	Amber
CH6	0—255	White
CH7	0—10	Turn off strobe
	11—255	Adjust the speed of strobe(1-20Hz)
CH8	0—255	(zoom in - zoom out)
CH9	0—10	Invalid
	11—20	WHITE 1:3200K
	21—30	WHITE 2:3400K
	31—40	WHITE 3:4200K
	41—50	WHITE 4:4900K
	51—60	WHITE 5:5600K
	61—70	WHITE 6:5900K
	71—80	WHITE 7:6500K
	81—90	WHITE 8:7200K
	91—100	WHITE 9:8000K
	101—110	WHITE 10:8500K
	111—120	AUTO 1
	121—130	AUTO 2
	131—140	AUTO 3
	141—150	AUTO 4
	151—160	AUTO 5
	161—170	AUTO 6
	171—180	AUTO 7

	181—190	AUTO 8
	191—200	AUTO 9
	201—210	AUTO 10
	211—255	Store
CH10	0—255	Auto run speed (fast-slow, AUTO 1 - AUTO 10 Valid)
CH11	0—10	User Dimmer mode set by menu
	11—20	Dimmer off
	21—30	Dimmer 1
	31—40	Dimmer 2
	41—50	Dimmer 3
	51—60	Dimmer 4
	61—254	User Dimmer mode set by menu
	255	Light fixtures reset (At least 5S)

9 Channels

Channel	Value	Function
CH1	0—255	General Dimming
CH2	0—255	Red
CH3	0—255	Green
CH4	0—255	Blue
CH5	0—255	Amber
CH6	0—255	White
CH7	0—10	Turn off the strobe
	11—255	Adjust strobe speed (1-20Hz)
CH8	0—255	(zoom in - zoom out)
CH9	0—10	User Dimmer mode set by menu
	11—20	Dimmer off
	21—30	Dimmer 1
	31—40	Dimmer 2
	41—50	Dimmer 3
	51—60	Dimmer 4
	61—254	User Dimmer mode set by menu
	255	Light fixtures reset (At least 5S)

7 Channel

Channel	Value	Function
CH1	0—255	General Dimming
CH2	0—255	Red
CH3	0—255	Green

CH4	0—255	Blue
CH5	0—255	Amber
CH6	0—255	White
CH7	0—255	(zoom in - zoom out)

5 Channel

Channel	Value	Function
CH1	0—255	Red
CH2	0—255	Green
CH3	0—255	Blue
CH4	0—255	Amber
CH5	0—255	White

6. Display Control Function

- MENU : access the menu or return to a previous menu option
- ENTER: select the current menu option
- UP: menu selection or parameter increments
- DOWN: menu selection or parameters decreases

7. Menu Instruction

7. 1 Menu

MENU	ADDR(address)	001~512		
	STAT(static)	RED	0~255 *	
		GREEN	0~255 *	
		BLUE	0~255 *	
		AMBER	0~255	
		WHIT	0~255 *	
		SHUT(STROBE)	0~255 *	
		ZOOM	0~255 *	
	AUTO	AT01	RUN.. *	
		AT02	RUN.. *	
		AT03	RUN.. *	
		AT04	RUN.. *	
		AT05	RUN.. *	
		AT06	RUN.. *	
		AT07	RUN.. *	
		AT08	RUN.. *	
		AT09	RUN.. *	
		AT10	RUN.. *	
		SP(speed)	0~255	

	WTST(BALANCE THE PARAMETER SETTING)	WT01	RED	0~255
			GREN	0~255
			BLUE	0~255
			AMBER	0~255
			WHIT	0~255
		WT10		
	CAL(calibrate)	RED	0~255	
		GREN	0~255	
		BLUE	0~255	
		WHITE	0~255	
		AMBER	0~255	
		USE	ON/OFF	
	CHMD(Channel)	<u>11CH</u>		
		9CH		
		7CH		
		5CH		
	DIM(Dimming Mode)	OFF		
		DIM1		
		DIM2		
		DIM3		
		<u>DIM4</u>		
	DISY(DISPLAY SETTING)	ON		
		<u>1M</u>		
	LOAD(Recover the original parameter)	YES/NO		
	REST(Light fixture reset)	YES/NO		
	SEND(Send parameter to other light fixtures)	YES/NO		

Notes:

- 1、While entering into menu asterisk setting, automatically send data out for the mater. Other light fixtures can receive the same data and operate synchronously.
- 2、The underline parts are factory defaults.

7. 2 DMX Adress setting

MENU→	ADDR(address) →	001~512
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- ◆ At Menu 【ADDR】 , Press 【ENTER】 to enter into DMX ID address
- ◆ Press 【UP/DOWN】 to choose value 【1~512】
- ◆ Press 【ENTER】 to exit and store

7. 3 Static Setting

	STAT(static control) →	RED →	0~255 *
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MENU→			
		GREEN →	0~255 *
		BLUE →	0~255 *
		AMBER →	0~255 *
		WHIT →	0~255 *
		SHUT(Strobe) →	0~255 *
		FOCU(Focus) →	0~255 *

- ◆ At Menu **【STAT】** , Press **【ENTER】** to enter into static setting
- ◆ Press **【UP/DOWN】** to choose **【RED】**, **【GREEN】**, **【BLUE】**, **【AMBER】**, **【WHITE】**, **【SHUT】** And **【FOCUS】**
- ◆ Press **【UP/DOWN】** to choose value **【0~255】**
- ◆ Press **【ENTER】** to exit and store

7. 4 Auto Run Choosing Setting

MENU→	AUTO →	AT01 →	RUN.. *
		.	.
		.	.
		.	.
		AT10 →	RUN.. *
		SP(speed)	0~255

- ◆ At Menu **【AUTO】** , Press **【ENTER】** to enter into choosing setting
- ◆ Press **【UP/DOWN】** to choose **【AT01】** ... **【AT10】**, **【SPEED】**
- ◆ Press **【ENTER】** to operate

7. 5 Built-in Color temperature、Color balance setting

MENU→	WTST(Color balance parameter setting) →	WT01 →	RED →	0~255
		.	GREEN →	0~255
		.	BLUE →	0~255
		.	WHIT →	0~255
			AMB →	0~255
		WT10 →		

- ◆ At Menu **【WTST】** , Press **【ENTER】** to enter into built-in color temperature、color balance setting
- ◆ Press **【UP/DOWN】** to choose **【WT01】** ... **【WT10】**
- ◆ Press **【UP/DOWN】** to choose **【RED】**, **【GREEN】**, **【BLUE】**, **【WHITE】**, **【AMBER】**
- ◆ Press **【UP/DOWN】** to choose value **【0~255】**
- ◆ Press **【ENTER】** to exit and store

7. 6 Calibrate Setting

MENU→	CAL(calibrate) →	RED →	0~255	
		GREEN →	0~255	
		BLUE →	0~255	
		WHITE →	0~255	
		AMBER →	0~255	
		USE →	ON/OFF	

- ◆ At Menu **【CAL】** , Press **【ENTER】** to enter into calibrate setting
- ◆ Press **【UP/DOWN】** to choose **【RED】**, **【GREEN】**, **【BLUE】**, **【WHITE】**, **【AMBER】**
- ◆ Press **【UP/DOWN】** to choose value **【0~255】**
- ◆ At **【USE】** , choose **【ON】** valid, **【OFF】** invalid
- ◆ Press **【ENTER】** to exit and store

Notes:

When setting is valid, RED, GREEN, BLUE, WHITE, AMBER output will transform into the corresponding percent output according to the calibrated value.

7. 7 Channel Setting

MENU→	CHMD →	<u>11CH</u>		
		9CH		
		7CH		
		5CH		

- ◆ At Menu **【CHMD】** , press **【ENTER】** to enter into channel setting
- ◆ Press **【UP/DOWN】** to choose **【11CH】**, **【9CH】**, **【7CH】**, **【5CH】**
- ◆ Press **【ENTER】** to exit and store

7. 8 Dimming Setting

MENU→	DIM →	OFF		
		DIM1		
		DIM2		
		DIM3		
		<u>DIM4</u>		

- ◆ At Menu **【DIM】** , Press **【ENTER】** to enter into dimming setting
- ◆ Press **【UP/DOWN】** to choose **【OFF】**, **【DIM1】**, **【DIM2】**, **【DIM3】** and **【DIM4】**
- ◆ Press **【ENTER】** to exit and store

Notes:

【OFF】 ~ **【DIM4】** corresponding dimming speed: from fast to slow.

7. 9 Display setting

	DISY(display setting)	ON		
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MENU→	→			
		<u>1M</u>		

- ◆ At Menu 【DISY】 , Press 【ENTER】 to enter into display setting
- ◆ Press 【UP/DOWN】 to choose 【ON】, 【1MINITE】
- ◆ Press 【ENTER】 to exit and store

7. 10 Recover the original parameter setting

MENU→	LOAD(Recover the original parameter) →	YES/NO		
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- ◆ At Menu 【LOAD】 ,Press 【ENTER】 to enter into recovery the original parameter setting
- ◆ Press 【UP/DOWN】 to choose 【YES】
- ◆ Press 【ENTER】 to exit and store

Notes:

The DMX address not changes while recovering the original parameter.

7. 11 Light Fixtures Reset

MENU→	REST →	YES/NO		
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- ◆ At Menu 【REST】 ,Press 【ENTER】 to enter into light fixtures resetting
- ◆ Press 【UP/DOWN】 to choose 【YES】
- ◆ Press 【ENTER】 to reset

7. 12 Send parameter to other light fixtures

MENU→	SEND →	YES/NO		
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- ◆ At Menu 【SEND】 ,Press 【ENTER】 to enter into sending parameter to other light fixtures
- ◆ Press 【UP/DOWN】 to choose 【YES】
- ◆ Press 【ENTER】 to send

Notes:

- 1、Cut off the connection with the controller before sending parameter
- 2、It is unavailable to send 【ADDR】、【CAL】

The other light fixtures will come into resetting once after received correctly.

Auto Run Instruction:

AT01: (R↑),(R↓),(G↑),(G↓),(B↑),(B↓),(W↑),(W↓),(A↑),(A↓)

AT02: (R↑G↑),(R↓G↓),(R↑B↑),(R↓B↓),(B↑G↑),(B↓G↓),(R↑G↑B↑),(R↓G↓B↓)

AT03: (R100%G↑),(G100%R↓),(G100%R↑),(R100%G↓)

AT04: (R100%B↑) → (B100%R↓) → (B100%R↑) → (R100%B↓)

AT05: (B100%G↑) → (G100%B↓) → (G100%B↑) → (B100%G↓)

AT06: (R↑) → (R↓) → (G↑) → (G↓) → (B↑) → (B↓) → (W↑) → (W↓) → (A↑) → (A↓) 【 with (strobe↑)】

AT07: (R100%)→ (G100%)→ (B100) → (W100%) 【 while (F↑F↓)】

AT08: (R100%G100%)→ (R100%B100%)→ (G100%B100%)→ (R100%G100%B100%) 【 with (F↑F↓)】

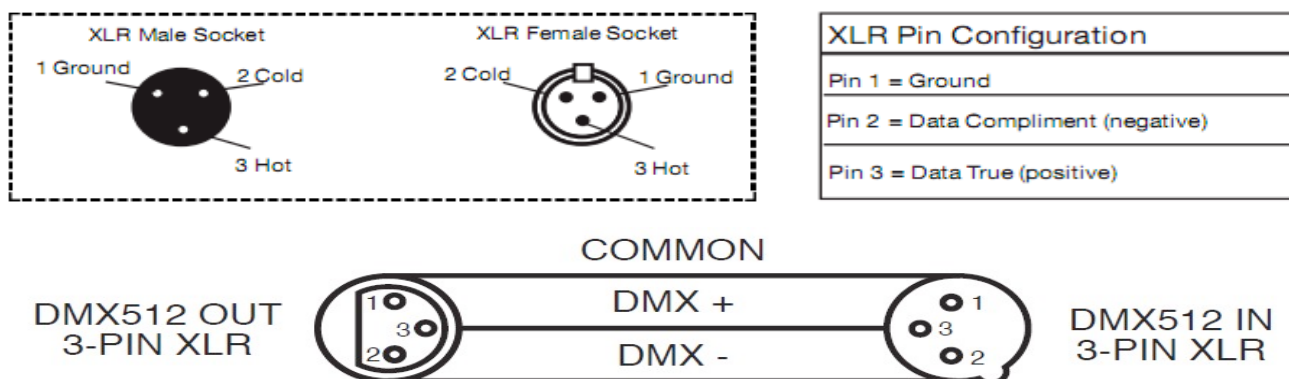
AT09: (R100%G100%B100%W100%A100%) 【while (F↑F↓)】

AT10: AUTO1~AUTO9

8. Signal cable connection

➤ Signal Cable:

The standard connection way of the XRL is: one end connect to the male plug ,and the other connect to the female. As bellow: pin 1:ground, pin 2: negative signal, pin 3: positive signal.



Noted:

In order to avoid failures and interference signal transmission, we connect a resistance 120Ω (1/4W) at the end of the DMX connecting as below:



Termination reduces signal errors and avoids signal transmission problems and interference. It is always advisable to connect a DMX terminal, (Resistance 120 Ohm 1/4 W) between PIN 2 (DMX-) and PIN 3 (DMX +) of the last fixture.

➤ The Conversion between 3pin and 5 pin XLR

If the output cable of DMX512 controller is the 5PIN, please use 1pc 5PIN to 3PIN cable

3-Pin XLR to 5-Pin XLR Conversion		
Conductor	3-Pin XLR Female (Out)	5-Pin XLR Male (In)
Ground/Shield	Pin 1	Pin 1
Data Compliment (- signal)	Pin 2	Pin 2
Data True (+ signal)	Pin 3	Pin 3
Not Used		Do Not Use
Not Used		Do Not Use

9. Trouble Shooting

Problem	Checking way
Can not turn on the light	<ul style="list-style-type: none"> ◆ Check the power source plug is in normal or not ◆ Check the switch of the lights is off or on ◆ Check the fuse if in normal
DMX can not control it	<ul style="list-style-type: none"> ◆ Check the DMX cable is connect to the lights or not ◆ Check the DMX512 controller work in normal or not ◆ Check the DMX cable is normal or not ◆ Check if the lights is in DMX mode (A001)
Display not bright	<ul style="list-style-type: none"> ◆ When connect to the electricity, did the led flash one time? If so, the power source is normal; If not, please check if the switch and the transformer has power out ◆ Check if the power input of the IC board is normal ◆ Check if the cable connect to the display loose ◆ Change the main board to see if it is normal. ◆ Chang the display
LED not light	<ul style="list-style-type: none"> ◆ When connect to the electricity, did the led flash one time? If so, the power source is normal; If not, please check if the switch and the transformer has power out ◆ Check if the power input of the IC board is normal ◆ Check if the cable connect to the display loose ◆ Change the main board to see if it is normal.
Some of the LED not	<ul style="list-style-type: none"> ◆ LED is connect by leds in series first, then connect parallel, so please check if the leds is loose ◆ Use the multimeter to check if the led is bright or not, of not, please

light	change the led ◆ check whether current limiting resistor is normal or not ◆ Check constant current IC is normal or not (compared with the normal IC)
Single color leds always bright/not bright	◆ Check the switch of this color is normal or not ◆ Change the IC control board

Noted: only professional persons can do as above !

11. Technical Specification

- Input voltage: AC 100V-264V/47-63HZ
- Consume: 120W
- Lamp Type: High Power LED(3W, SMD3535)
- Lamp Spec: R(6PCS), G(8PCS), B(8PCS), W(8PCS), A(6PCS)
- LED Lifespan : 50000-100000 hours
- LED Drive: PWM>400HZ(16666 grades), Drive Current 700mA
- Control Signal: DMX512, auto run
- Control mode: stand alone/ master slave
- Channel: 5CH, 7CH, 9CH, 11CH
- Color effect: RGBAW mixing
- Beam Angle:10-40 degree zoom
- Effects; Dimming, Strobe, Gradual dimming
- Cooling mode: Natural Convection, built-in temperature control function
- Protected rate: IP65
- Anti-electricity intension: 1.5KV
- Insulation Resistance: >2MΩ
- Net Weight: 5.2KG