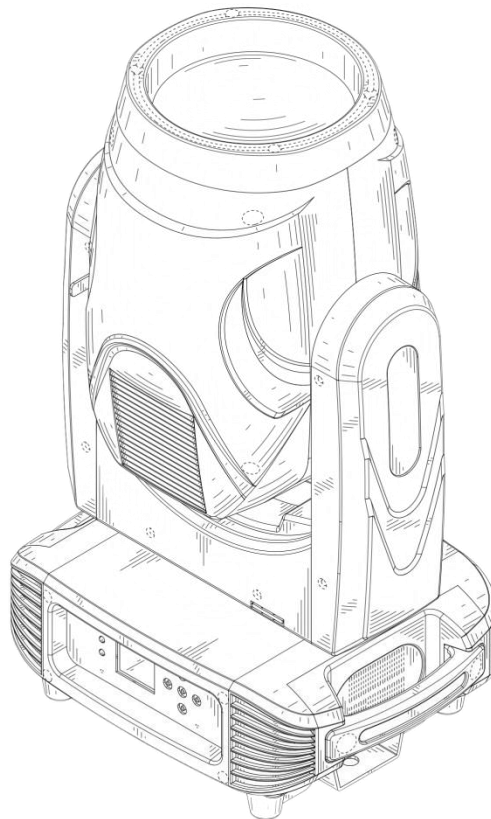


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# PRO BEAM 180 MOVING HEAD LIGHT

## USER MANUAL



Please read over this manual before operating the light

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# Chapter 1 Installation and attention

## 1.1 Maintenance

- ☐ To reduce the risk of electrical shock or fire, do not expose this unit to rain or moisture.
- ☐ Intermittently using will extend this item's service life.
- ☐ Please clear the fan, fan net, and optical lens in order to keep good work state.
- ☐ Do not use the alcohol or any other organic solvent to wipe the shell.

## 1.2 Statement

The product has perfect performance and integrity packing. All users should be strictly complying with the warning and operating instructions as stated. Or we aren't in charge of any result by misuse. Any damage resulting by misuse is not within the Company's warranty. Any fault or problem caused by neglecting the manual is also not in the charge of dealers.

**Note:** All information is subject to change without prior notice.

## 1.3 Safety Precaution

- ☐ In order to guarantee the product's life, please don't put it in the damp places or even the environment over 60degree.
- ☐ Always mount this unit in safe and stable matter.
- ☐ Install or dismantle should be operated by professional engineer.
- ☐ Using lamp, the change rate of power voltage should be within  $\pm 10\%$ . If the voltage is too high, it will shorten the light's life; if it's not enough, will influence the effect.
- ☐ Please restart it 20 minutes later after turning off the light, until full-cooling. Frequent switching will reduce the life span of lamps and bulbs; intermittent using will improve the life of bulbs and lights.
- ☐ In order to make sure the product is used correctly, please read the Manual carefully.

## 1.4 Product Instruction

- ☐ Lamp: REDJET 230W R7
- ☐ Channel mode: 16 DMX512 Channel
- ☐ Pan scan: 540°(16bit) Electric correction
- ☐ Tilt scan: 270° (16bit) Electric correction
- ☐ Amazing dot matrix, four tact switch, 180° turning show
- ☐ Color wheel: 14 colors+white
- ☐ Gobo wheel: 13 gobos+white (3 glass gobos)
- ☐ Effect Wheel: 8 prism+16 prism;
- ☐ 0- 100% mechanical dimming, mechanical dimming and free dimming available.

- ☐ Strobe macro control available;
- ☐ Lens optical system chemical force , beam angle 0~4°;
- ☐ Over-heatprotection
- ☐ Power Input: 100-240V, 50/60Hz
- ☐ Power Dissipation: 250W
- ☐ IP level :IP20
- ☐ Magnetic ballast and AC/Dc power supply
- ☐ Product Size:246x185x460mm
- ☐ Net weight: 8.5KG

### 1.5 Cable connection (DMX)

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 or 5-pin male/female connectors. A terminating plug must be inserted into the last projector with a resistance of 120Ohm (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 shield braid and to pin 1 of the connectors.

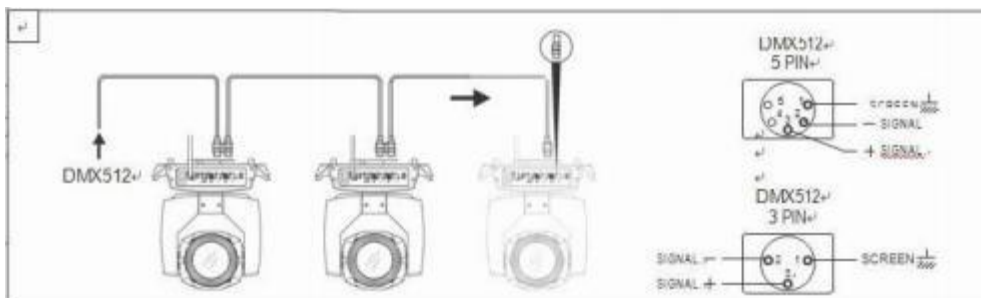


Figure 1 DMX Cable connection

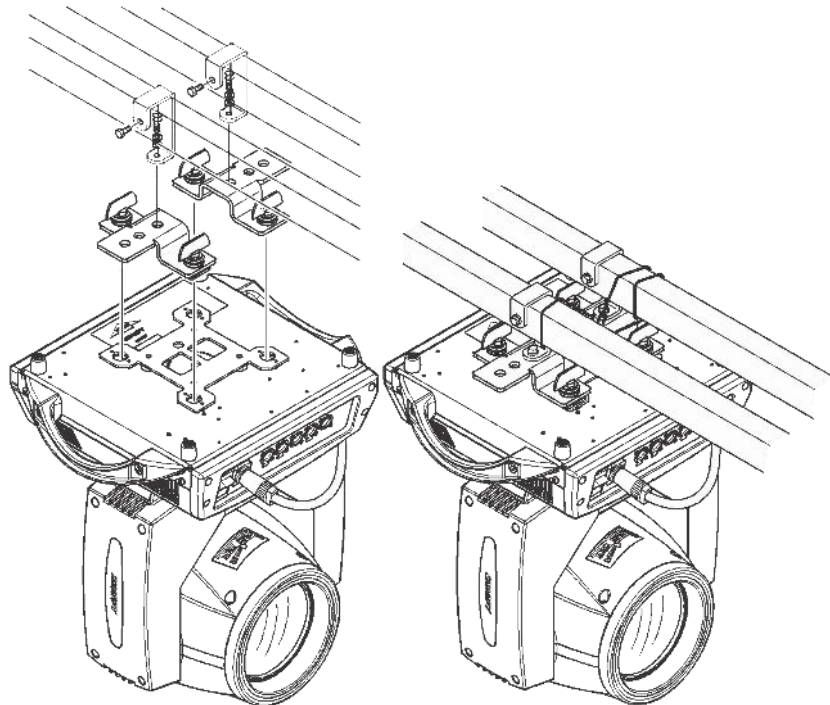
### 1.6 Rigging (Optional)

This equipment can be positioned and fixed by clamp in every direction of the stage. Locking system makes it easy to fasten to the bracket.

Attention! Two clamps are needed to fix the equipment. Every clamp is locked by fastener of 1/4 kind. Fastener can only be locked clockwise.

Attention! Fasten a safety string to the additional hole of side aluminum piece. The secondary accessory could not hang on the delivery handle. Nip the equipment on bracket.

- 
- Check if rigging clamp (not including the one inside) damaged or not? If stand ten times weight as the equipment. Make sure the architecture can stand ten times weight as all the equipment, clamps, wiring and other additional fixtures.
  - Screws for clamping must be fixed firmly. Take one M12 screw (Grade 8.8 or higher) to clamp bracket, and then screw the nuts.
  - Level the two hanging points at the bottom of clamp. Insert fastener to the bottom, lock the two levers by 1/4 rotating clockwise; then install another clamp.
  - Install on safety string which stands at least ten times weight as equipment. Terminal of the accessory is designed for clamps.
  - Make sure pan/tilt lock unlocked or not. Keep the distance more than 1M from equipment to flammable material or lighting source.



## Chapter 2 Main board

### 2.1 Display

Fixture installed TFT 1.77' LCD display. Product key features as below:

A. Using the quickest CPU of Chips, without flash screen, stuck issues.

B. Programming abandoned the mainstream programming language, rejected the long code of the mainstream programming language, which caused the card to be slow, and was written in the underlying core programming language with the lightest code in the world. The main emphasis is on the exquisite and meticulous code, small size and large functions, so that the interface can be optimized and the efficiency can be exerted. It is very vivid, small size and can run smoothly.

C. Creative user program programming function and interface style, the interface is intuitive, the operation is more flexible and multi-purpose, so that a small screen instantly becomes a big console, so that it can be used in outdoor landmarks and other occasions, eliminating the need for expensive consoles or console programming Online synchronization operation.

D. With RDM function, helps user no need climb the higher area to setting the fixture's address, just using a simple console can be easily setting each fixture's different address.

**Main interface as below:**

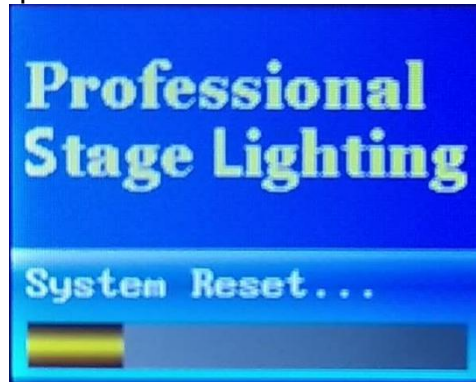


**Instruction:**

DMX	DMX indicator light
AUDIO	Sound indicator light
Up	UP
Down	Down
Left	Left/Return
Right	Right
ENTER	Confirm button
Left time	System using total time (can be closed display under 'Standard setting')
Right time	From power in to power off total time (can be closed display under 'Standard setting')
Signal	DMX Signal intention, Red: No signal. White: signal intention
Square icon	Green: without error, working well
	Red: Error (Can click the icon or following<information menu/error information/check>to found out the issues)

### System driving as below:

The system enter into reset after power in, the interface shows as below photo. And auto check the functions, if some functions not working, will be display on the right side of interface, the square icon changed to Red color after finished reset. Can following <information menu/error information/check> to found out the issues, will be display Green color if working no problem.



After finished reset, the interface display as below, select different UI color style matches different display, can be setting color under <standard setting>.



Standard Set	Back
Effect mode	Yes
Started lamp	On
Switch lamp	On
No signal	Clear
UI Color	Blue

Standard Set	Back
Effect mode	Yes
Started lamp	On
Switch lamp	On
No signal	Clear
UI Color	Golden

Press any button, can enter into system menu, like below photos.



## 2.2 Function instruction

### Manual control or programming function instruction

This function can edit the merest is 4 user programmers. This 4 programmers can tandem connection running, under <Testing running>, they can switch on at the same time, first running programme 1, then 2,3 and 4, final cycle back programme 1, cycle running all the time. And single running available.

Programme function buttons can be come out below operation:

PRO1	=001	MANU	Back
Copy	Past	Zero	Save

Select programme, read programme, select procedure, delete procedure, manual or console input, copy procedure, paste on the selected procedure, clear procedure, save it to selected programme space.

### Manual control

Manual/console operation buttons press Left/Right/Up/Down/Enter, let's mode into Manual.

PRO1	=001	MANU	Back
Copy	Past	Zero	Save

Press Left/Right/Up/Down/Enter, make the matches channels to Red color, press Up/Down can manual control.





### Manual control programming

Select need store programme PRO1-4, setting channel values by manual control, press<Procedure>,see below photo show. The next step cycle again it.



### Delete procedure

Can delete the back procedure if programming procedure too many. Select PROCEDURE, press DOWN, back to no need PROCEDURE, number display >0XX, press ENTER 3secs, the back procedure that can be deleted, display=0XX.

### Copy procedure

Press Copy, copy all DMX channels values, store on Paste board.

### Paste procedure

Finished Copy, can select any procedure, paste DMX channels values to the selected procedure channel.

### Clear procedure

Press CLEAR, can clear at present DMX channel values.

### Console control programming

This fixture supporting console programming, see below photo select mode as CONS.



Under this mode, all values controlled by DMX console, manual invalid, paste and clear invalid too. All values display DMX data. At present, just console input or running built-in programme. This fixture here need press DOWN number, press UP that enter programming.

### Save programme

Finished programming by manual or console, can save programme. Confirm save under PRO1--PRO4, and procedure length =0XX, not >0XX. If more procedure, please delete first, see how to delete procedure, last save.

### Read and re-edit programme

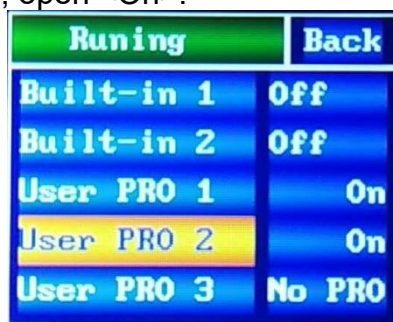
Select PRO1-PRO4, press ENTER, press <Down> till display <Read out>, press <Enter> can read out programme, see below photos. The data is the max of the programme, if programme is empty, display <empty> or <No>.



Re-edit read out programme available. Finished re-edit press <Save> can cover at present programme, or select others space of PRO1-PRO4 to save.

### Running programme

If need running the save programme, please back to <test running/Perform> menu, select user programme, open <On>.



## Chapter 3 Channel


### 3.1 Menu instruction






Standard	Default set	Enter?	Factory default
	Address	001-512	DMX address setting
	DMX mode	Mode1 Mode2 Mode3 Mode4	DMX mode option
	Effect mode	No/Yes	Effect wheel auto found out the shortest distance to rotating
	Started lamp	Off/on	Driving lamp select<off> or <on>
	Switch lamp	Off/on	Manual light on lamp
	No signal	Clear Hold	Store DMX data or clear data under without DMX signal
	UI Color	Green Blue Golden Gray	Display color option
	Show time	No/Yes	Driving time
	Brightness	000-255	Adjust display brightness
	Screensaver	Off/on	Closed display without touch and press

			buttons
	XY encoder	No/Yes	XY Auto error correction open or closed
	X inversion	No/Yes	Pan clockwise or anti-clockwise driving
	Y inversion	No/Yes	Tilt clockwise or anti-clockwise driving
	Focus inversion	No/Yes	Focus clockwise or anti-clockwise driving
	Zoom inversion	No/Yes	Zoom clockwise or anti-clockwise driving
Advanced	Here setting for fixture's main parameter, need authority		
Info	Error List	No error/View	Without error or check issues when error
	System ver	Vxxxxxxx	System version
	Serial NO.	xxxxxxx	Fixture's serial number
	SYS timer	00000.0H	System running time (hours)
	Run timer	000:00	From power in to power off running time (hours)
	Lamp timer	00000.0H	Lamp light on time (hours)
	Equip TEMP	000	Main parts temperature(need fixture's supporting)
	Head TEMP	000	Head temperature(need fixture's supporting)
	FAN 1 Speed	0000 RPM	Fan 1 speed (need fixture's supporting)
	FAN 2 Speed	0000 RPM	Fan 2 speed (need fixture's supporting)
perform	Run mode	Auto/Sound	Auto or sound
	Run speed	255	speed
	Run cross	255	Setting run cross of auto or sound(need fixture's supporting)
	Built-in 1	Off/on	Built-in 1 testing
	Built-in 2	Off/on	Built-in 2 testing
	User PRO 1	Off/on	User self-made programme 1
	User PRO 2	Off/on	User self-made programme 2
	User PRO 3	Off/on	User self-made programme 3
	User PRO 4	Off/on	User self-made programme 4
	Circle shape	Off/on	Hold
	Shpae shape	Off/on	Hold
	Shape range	000	Hold
	Sound DB	000	Sound sensitivity adjust
Program	More instruction as below page		
Reset	Reset		

### 3.2 16 Channel Table

Chanel	Function	DMX Value	Feature
16Bit			
		000-004	WHITE
		005-008	WHITE+RED
		009-012	RED

<b>1</b>	<b>Color wheel</b>	013-017	RED+ORANGE
		018-021	ORANGE
		022-025	ORANGE+AQUAMARINE
		026-029	AQUAMARINE
		030-034	AQUAMARINE+GREEN
		035-038	GREEN
		039-042	GREEN+LIGHT GREEN
		043-046	LIGHT GREEN
		047-051	LIGHT GREEN+LAVENDER
		052-055	LAVENDER
		056-059	LAVENDER+PINK
		060-063	PINK
		064-068	PINK+YELLOW
		069-072	YELLOW
		073-076	YELLOW+MEGANTA
		077-081	MEGANTA
		082-085	MAGENTA+CYAN
		086-089	CYAN
		090-093	CYAN+CTO260
		094-098	CTO260
		099-102	CTO260+CTO190
		103-106	CTO190
		107-110	CTO190+CTB8000
		111-115	CTB8000
		116-119	CTB8000+BLUE
		120-123	PURPLE
		124-127	PURPLE+WHITE
		128-255	Slow to fast rotation
<b>2</b>	<b>Stop/strobe</b>	000-003	Closed
		004-103	Slow to strobe(1-12flash/sec)
		104-107	Open
		108-207	Slow to fast pulsation
		208-212	Open
		213-225	Random slow strobe
		226-238	Random medium strobe
		239-251	Random medium strobe
		252-255	Open
<b>3</b>	<b>Dimmer</b>	000-255	0-100% dimmer 
		000-003	White
		004-007	Gobo 1
		008-011	Gobo 2
		012-015	Gobo 3
		016-019	Gobo 4
		020-023	Gobo 5
		024-027	Gobo 6
		028-031	Gobo 7
		032-035	Gobo 8
		036-039	Gobo 9
		040-043	Gobo 10
		044-047	Gobo 11
		048-051	Gobo 12
		052-055	Gobo 13
		056-059	Gobo 14

<b>4</b>	<b>Gobo</b>	072-113	Slow to fast rotation
		114-117	Stop
		118-159	Slow to fast rotation(Backward)
		160-166	Gogo1 shake slow-fast speed
		167-172	Gogo2 shake slow-fast speed
		173-179	Gogo3 shake slow-fast speed
		180-185	Gogo4 shake slow-fast speed
		186-191	Gogo5 shake slow-fast speed
		192-198	Gogo6 shake slow-fast speed
		199-204	Gogo7 shake slow-fast speed
		205-211	Gogo8 shake slow-fast speed
		212-217	Gogo9 shake slow-fast speed
		218-223	Gogo10 shake slow-fast speed
		224-230	Gogo11 shake slow-fast speed
		231-236	Gogo12 shake slow-fast speed
		237-243	Gogo13 shake slow-fast speed
		244-255	Gogo14 shake slow-fast speed
<b>5</b>	<b>Prism</b>	000-031	No Prism
		032-255	Prism 1
<b>6</b>	<b>Prism rotation</b>	000-127	Angle
		128-191	Clockwise Slow to Fast
		192-255	Anticlockwise Slow to Fast
<b>7</b>	<b>Rainbow</b>	000-127	No
		127-255	Rainbow
<b>8</b>	<b>Frost</b>	000-127	Frost excluded
		128-255	Frost inserted
<b>9</b>	<b>Focus</b>	000-255	
<b>10</b>	<b>Pan</b>	000-255	
<b>11</b>	<b>Pan fine</b>	000-255	
<b>12</b>	<b>Tilt</b>	000-255	
<b>13</b>	<b>Tilt fine</b>	000-255	
<b>14</b>	<b>Pan and Tilt Speed</b>	000-255	Fast to slow
<b>15</b>	<b>Reset</b>	000-127	Unused range
		128-255	COMPLETE RESET
<b>16</b>	<b>Lamp control</b>	000-025	Unused range
		026-100	Lamp off
		101-255	Lamp on