



NP3RGB

ANIMATION LASER LIGHT

User manual



Please read over this manual before operating the light

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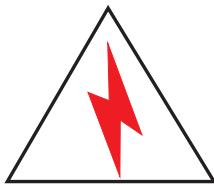
First、Brief

Thank you for purchasing of our professional laser show system. We always try to develop our product with high-tech and high performance to meet your requirement and expectation.

The unit is designed strictly according to the international standard. The control way is single or master/slave in option. The manual is included the skill parameter and detail instructions etc. Please read the manual carefully before using the product.

Note: based on the policy of our company constantly upgrade the product improvement and contained in this manual. Data is likely to change in the future, and will not notice the alterations, the company keep in Product improvement when change the power of the relevant specification data. If you want to know the specific upgrades, please contact with sales department of the company, thank you. The publisher of this manual will not for the information in this manual is accurate is responsible for, also not due to the information the relevant consequences of any responsibility.

◎ SECURITY WARNINGS



Avoid electric



Green package

Second、Packing list

2 - 1 We use the carton to pack normally. You may choose the fly case.

2 - 2 Opening the package

Open the case and take out the enclosed spare parts, remove the drier, take the unit and put it in a flat place to operate.

2 - 3 Spare parts

With of exception of this equipment, the pacing enclosed as following

Package List			
Projector	1pcs		
Power line	1pcs		
The manual	1pcs		

Third、 installation and safety instruction

3-1. Please check the voltage whether is the same with the one showed on the equipment or nor.

3-2. It must ask for the technical person and set the light safety when installation. And let the light beam at the suitable angle.

3-3. When install this equipment please make sure there's no flammable surface (decorated things, etc.) within at least 2.5M and maintain minimum distance of 0.5M from the equipment to the walls.

3-4. Please make sure that there's no other equipment or decoration materials obstructed the exhaust fan and the vent-pipe when the equipment is working.

3-5. Products should be install immobility and try to avoid strong shake or hit.

3-6. In case of safety, it's very important that to connect the earth with line.

Fourth、 power supply and signal connect

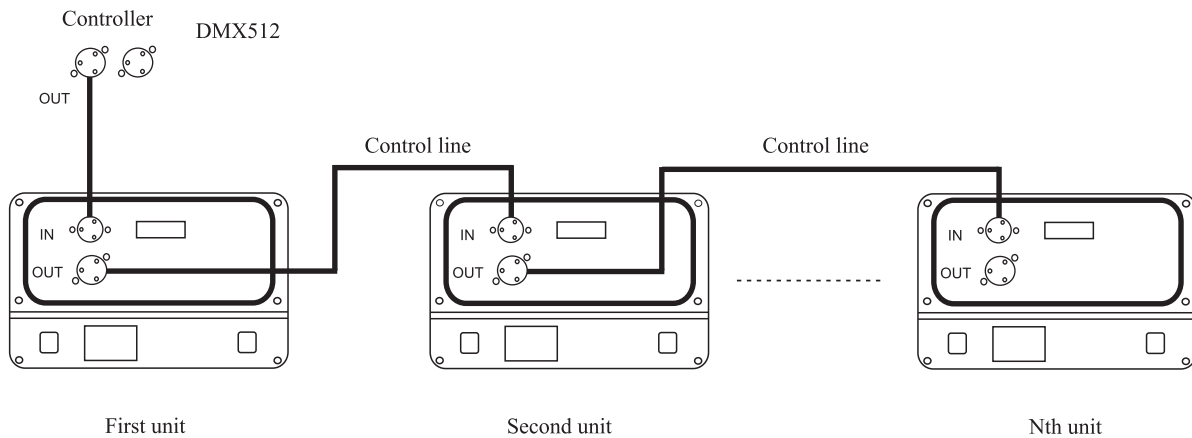
4 - 1 Connect the power and control

Use the professional plug to connect the laser light and power cable. Before installing the unit, please confirm whether the voltage and frequency indicated on the real panel of laser light. Voltage and frequency parameters(is matching)

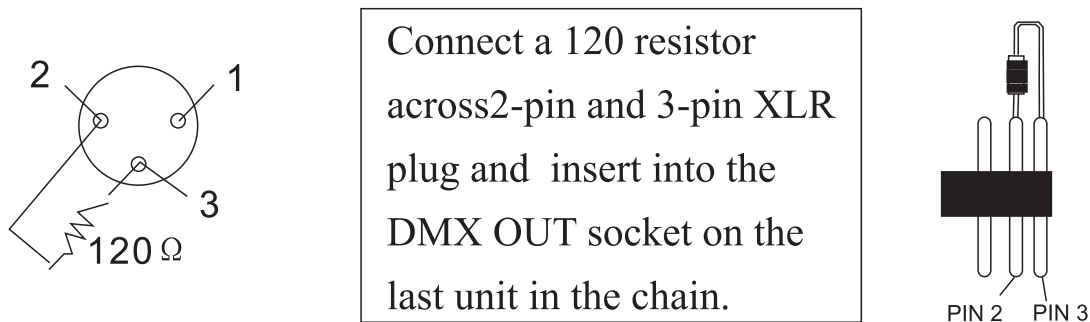
Voltage	AC100~240V		AC100~120V	AC200~240V
Opt				
Frequency	50Hz	60Hz	50~60Hz	
Opt				

4 - 2 Connect the signal cable

The laser light may be controlled the DMX 512 signal. Under sound and Atuo control. the master/slave can be used. The master/slave mode is lined by signal line. Connect the DMX-out of the first fixture in the DMX-chain with the DMX-input of the next fixture. Always connect one output with the input of the next fixture until all fixtures are connected.

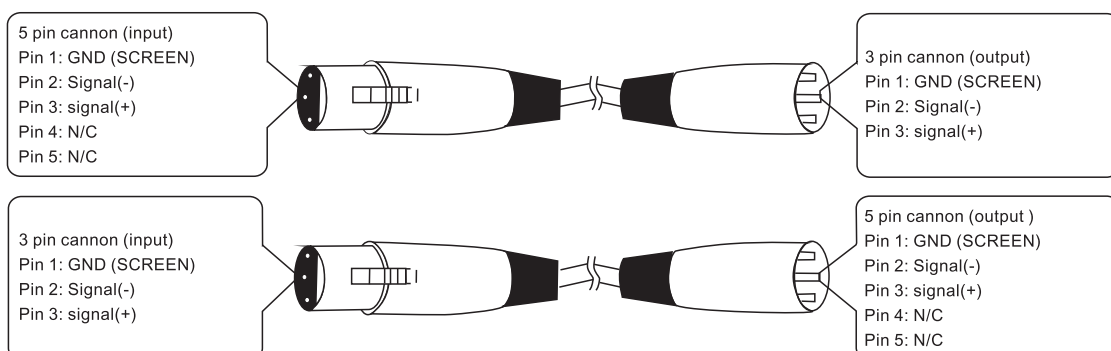


Caution: Please remember the signal output of last machine must connect the attached circle plug .The circle plug connect a 120 resistor between 2 feet and 3 feet canon plug. The signal reflects phenomena can be avoided by using circle plug during DMX 512 signal transfer. (DMX TERMINATOR CONNECTION):



The laser light use 3 feet XLR plug, if the controller you use is 5 feet XLR plug. You must use a inter change line from 5 feet to 3 feet. See the following. The transform of 3-pin and 5-pin XLR adaptor.

The 3pin and 5pin Canon DMX512 connector circuit



Fifth : Operating instructions

The light have six control model: DMX address, auto in-play, music in-play, master-slave, ILDA control mode (If computer ILDA signal input ILDA signal priority) setting as following:

Model		OLED display
1	DMX512	<div> <div> Operation mode DMX Address Master setting Color setting System config Device info </div> → <div> DMX adress Auto TRG Music TRG Test Draw </div> </div>
2	Auto In-play	<div> <div> Operation mode Auto TRG Master setting Color setting System config Device info </div> → <div> DMX adress Auto TRG Music TRG Test Draw </div> </div>
3	Music In-play	<div> <div> Operation mode Music TRG Master setting Color setting System config Device info </div> → <div> DMX adress Auto TRG Music TRG Test Draw </div> </div>
4	Master -slave	<div> <div> System config Device info Operation mode Music TRG Master setting Color setting </div> → <div> Master/slave Channel 30CH System Reset One beam </div> </div>

OLED display control panel function menu setting, as following::

First menu	second menu
<div> Operation mode DMX Address Master setting Color setting System config Device info </div>	<div> DMX adress Auto TRG Music TRG Test Mode </div>
<div> Operation mode Auto TRG Master setting Color setting System config Device info </div>	<div> DMX adress Auto TRG Music TRG Test Mode </div>
<div> Operation mode Music TRG Master setting Color setting System config Device info </div>	<div> DMX adress Auto TRG Music TRG Test Mode </div>

<div>Operation mode</div> <div>Test Mode</div> <div>Master setting</div> <div>Color setting</div> <div>System config</div> <div>Device info</div>	<div>DMX address</div> <div>Auto TRG</div> <div>Music TRG</div> <div>Test Mode</div>
<div>DMX Address</div> <div>Master setting</div> <div>Color setting</div> <div>System config</div> <div>Device info</div> <div>Operation mode</div>	<div>DMX address</div> <div>001</div>
<div>Auto TRG</div> <div>Master setting</div> <div>Color setting</div> <div>System config</div> <div>Device info</div> <div>Operation mode</div>	<div>Auto TRG</div> <div>001</div>
<div>Music TRG</div> <div>Master setting</div> <div>Color setting</div> <div>System config</div> <div>Device info</div> <div>Operation mode</div>	<div>Music TRG</div> <div>001</div>
<div>Test Mode</div> <div>Master setting</div> <div>Color setting</div> <div>System config</div> <div>Device info</div> <div>Operation mode</div>	<div>Enable Laser</div> <div>Test pattern1</div> <div>Master Size 255</div>
<div>Master setting</div> <div>Color setting</div> <div>System config</div> <div>Device info</div> <div>Operation mode</div> <div>Auto TRG</div>	<div>Master Size 255</div> <div>X Scale 255</div> <div>Y Scale 255</div> <div>Invert X</div> <div>Invert Y</div>
<div>Color setting</div> <div>System config</div> <div>Device info</div> <div>Operation mode</div> <div>Auto TRG</div> <div>Master setting</div>	<div>Color shiftRGB</div> <div>Red 255</div> <div>Green 255</div> <div>Blue 255</div>
<div>System config</div> <div>Device info</div> <div>Operation mode</div> <div>Auto TRG</div> <div>Master setting</div> <div>Color setting</div>	<div>Master/slave</div> <div>Channel 30CH</div> <div>System Reset</div> <div>One beam</div>
<div>Device info</div> <div>Operation mode</div> <div>Auto TRG</div> <div>Master setting</div> <div>Color setting</div> <div>System config</div>	<div>Dmx addr 001</div> <div>SWFlash LF001</div> <div>5006.0.2.2</div>

5-1、DMX-512 control mode:

This fixture has RDM function, 16CH and 30CH for option

CH	Function	value	Description
CH2	IPLAY mode	32~95	no music manual selection pattern
		96~159	no music auto effect
		160~223	music manual selection pattern
		224~255	music triggered AUTO effect

1).IPLAY 16CH model follow

CH2=32~95 or 160~223 , when manual control CH3~CH16 valid ,
CH2=96~159 or 224~255,when automatic controlCH3~CH16 invalid ,

CH	Function	value	Description
CH1	laser swit	0~10	light off
		11~255	light on
CH2	light off	0~31	light off
	IPLAY mode	32~95	no music manual selection pattern
		96~159	no music auto effect
		160~223	music manual selection pattern
		224~255	music triggered AUTO effect
CH3	pattern group choose	0~255	each 32 value choose pattern group
CH4	Pattern	0~15	light off
		16~255	each 12 value one pattern
CH5	Pattern rotating	0~127	rotating angle choose
		128~143	effect 1
		144~159	effect 2
		160~175	effect 3
		176~191	effect 4
		192~207	effect 5
		208~223	effect 6
		224~239	effect 7
		240~255	effect 8

CH6	Pattern pan rotating	0~127	pan rotating angle choose
		128~143	effect1
		144~159	effect2
		160~175	effect3
		176~191	effect4
		192~207	effect5
		208~223	effect6
		224~239	effect7
		240~255	effect8
CH7	Pattern tilt rotating	0~127	tilt rotating angle choose
		128~143	effect1
		144~159	effect2
		160~175	effect3
		176~191	effect4
		192~207	effect5
		208~223	effect6
		224~239	effect7
		240~255	effect8
CH8	Pattern pan move	0~255	pan movement position choose
CH9	Pattern pan movement	0~127	pan movement position choose
		128~143	effect 1
		144~159	effect 2
		160~175	effect 3
		176~191	effect 4
		192~207	effect 5
		208~223	effect 6
		224~239	effect 7
		240~255	effect 8
CH10	pattern tilt move	0~255	tilt movement position choose
CH11	pattern tilt movement	0~127	tilt movement position choose
		128~143	effect 1
		144~159	effect 2
		160~175	effect 3
		176~191	effect 4
		192~207	effect 5
		208~223	effect 6

CH11	pattern tilt movement	224~239	effect 7
		240~255	effect 8
CH12	pattern zoom	0~127	zoom size choose
		128~143	zoom effect 1
		144~159	zoom effect 2
		160~175	zoom effect 3
		176~191	zoom effect 4
		192~207	zoom effect 5
		208~223	zoom effect 6
		224~239	zoom effect 7
		240~255	zoom effect 8
CH13	wave mode	0~39	1 wave speed and crest choose
		40~79	2 wave speed and crest choose
		80~119	3 wave speed and crest choose
		120~159	4 wave speed and crest choose
		160~199	5 wave speed and crest choose
		201~255	wave speed and crest choose
CH14	Pattern gradually	0~127	drawing choose
		128~159	strobe
		160~191	two-way drawing
		192~223	one-way drawing
		224~255	one-way re-back drawing
CH15	Deformation	1~15	invalid
		16~31	Deformation (use with zoom channel)
		32~47	
		48~63	
		64~79	
		80~95	
		96~111	
		112~127	
		128~143	
		144~159	
		160~175	
		176~191	
		192~207	

CH15	Deformation	208~223	Deformation (use with zoom channel)
		224~225	
CH16	Full color mode (single color is invalid)	0~7	default color
		8~15	RGB
		16~23	R
		24~31	RG
		32~39	G
		40~47	GB
		48~55	B
		56~63	RB
		64~127	Swap color
		128~143	Swap color change
		144~159	three colors change
		160~175	three colors flow change
		176~191	7 color change
		192~207	7 color flow change
		208~223	color table change
		224~239	color table flow
		240~255	drawing effect speed choose

2).IPLA30CH model follow

CH2=32~95 or 160~223 , when manual control CH3~CH30 valid ,

CH2=96~159 or 224~255,when automatic controlCH3~CH30 invalid ,

CH	Function	value	Description
CH1	laser swit	0~10	light off
		11~255	light on
CH2	light off	0~31	light off
	IPLAY mode	32~95	no music manual selection pattern
		96~159	no music auto effect
		160~223	music manual selection pattern
		224~255	music triggered AUTO effect
CH3	pattern A group choose	0~255	each 32 value choose pattern group
CH4	Pattern A	0~15	light off
		16~255	each 12 value one pattern

CH5	Pattern A rotating	0~127	rotating angle choose
		128~143	effect 1
		144~159	effect 2
		160~175	effect 3
		176~191	effect 4
		192~207	effect 5
		208~223	effect 6
		224~239	effect 7
		240~255	effect 8
CH6	Pattern A pan rotating	0~127	pan rotating angle choose
		128~143	effect1
		144~159	effect2
		160~175	effect3
		176~191	effect4
		192~207	effect5
		208~223	effect6
		224~239	effect7
		240~255	effect8
CH7	Pattern A tilt rotating	0~127	tilt rotating angle choose
		128~143	effect1
		144~159	effect2
		160~175	effect3
		176~191	effect4
		192~207	effect5
		208~223	effect6
		224~239	effect7
		240~255	effect8
CH8	Pattern A pan move	0~255	pan movement position choose
CH9	Pattern A pan movement	0~127	pan movement position choose
		128~143	effect 1
		144~159	effect 2
		160~175	effect 3
		176~191	effect 4
		192~207	effect 5
		208~223	effect 6

CH9	pattern A pan movement	224~239	effect 7
		240~255	effect 8
CH10	pattern A tilt move	0~255	tilt movement position choose
CH11	pattern A tilt movement	0~127	tilt movement position choose
		128~143	effect 1
		144~159	effect 2
		160~175	effect 3
		176~191	effect 4
		192~207	effect 5
		208~223	effect 6
		224~239	effect 7
		240~255	effect 8
CH12	pattern A zoom	0~127	zoom size choose
		128~143	zoom effect 1
		144~159	zoom effect 2
		160~175	zoom effect 3
		176~191	zoom effect 4
		192~207	zoom effect 5
		208~223	zoom effect 6
		224~239	zoom effect 7
		240~255	zoom effect 8
CH13	pattern A wave mode	1~39	1 wave speed and crest choose
		40~79	2 wave speed and crest choose
		80~119	3 wave speed and crest choose
		120~159	4 wave speed and crest choose
		160~199	5 wave speed and crest choose
		201~255	wave speed and crest choose
CH14	Pattern A gradually	1~127	drawing choose
		128~159	strobe
		160~191	two-way drawing
		192~223	one-way drawing
		224~255	one-way re-back drawing
CH15	Pattern A Deformation	1~15	invalid
		16~31	Deformation (use with zoom channel)
		32~47	

CH15	Pattern A Deformation	48~63	Deformation (use with zoom channel)
		64~79	
		80~95	
		96~111	
		112~127	
		128~143	
		144~159	
		160~175	
		176~191	
		192~207	
		208~223	
		224~255	
CH16	Pattern A Full color mode (single color is invalid)	0~7	default color
		8~15	RGB
		16~23	R
		24~31	RG
		32~39	G
		40~47	GB
		48~55	B
		56~63	RB
		64~127	Swap color
		128~143	Swap color change
		144~159	three colors change
		160~175	three colors flow change
		176~191	7 color change
		192~207	7 color flow change
		208~223	color table change
		224~239	color table flow
		240~255	drawing effect speed choose
CH17	Pattern B group choose	0~255	each 32 value choose pattern group
CH18	Pattern B	0~15	light off
		16~255	each 12 value one pattern
CH19	Pattern B rotating	0~127	rotating angle choose
		128~143	rotating angle choose effect 1

CH19	Pattern B rotating	144~159	rotating angle choose effect 2
		160~175	rotating angle choose effect 3
		176~191	rotating angle choose effect 4
		192~207	rotating angle choose effect 5
		208~223	rotating angle choose effect 6
		224~239	rotating angle choose effect 7
		240~255	rotating angle choose effect 8
CH20	Pattern B pan rotating	0~127	pan rotating angle choose
		128~143	pan rotating choose effect1
		144~159	pan rotating choose effect2
		160~175	pan rotating choose effect3
		176~191	pan rotating choose effect4
		192~207	pan rotating choose effect5
		208~223	pan rotating choose effect6
		224~239	pan rotating choose effect7
		240~255	pan rotating choose effect8
CH21	Pattern B tilt rotating	0~127	tilt rotating angle choose
		128~143	tilt rotating choose effect1
		144~159	tilt rotating choose effect2
		160~175	tilt rotating choose effect3
		176~191	tilt rotating choose effect4
		192~207	tilt rotating choose effect5
		208~223	tilt rotating choose effect6
		224~239	tilt rotating choose effect7
		240~255	lilt rotating choose effect8
CH22	pattern B pan move	0~255	pan movement position choose
CH23	pattern B pan movement	0~127	pan movement position choose
		128~143	pan movement effect 1
		144~159	pan movement effect 2
		160~175	pan movement effect 3
		176~191	pan movement effect 4
		192~207	pan movement effect 5
		208~223	pan movement effect 6
		224~239	pan movement effect 7
		240~255	pan movement effect 8

CH24	Pattern B tilt move	0~255	tilt movement position choose
CH25	Pattern B tilt movement	0~127	tilt movement position choose
		128~143	tilt movement effect 1
		144~159	tilt movement effect 2
		160~175	tilt movement effect 3
		176~191	tilt movement effect 4
		192~207	tilt movement effect 5
		208~223	tilt movement effect 6
		224~239	tilt movement effect 7
		240~255	tilt movement effect 8
CH26	Pattern B zoom	0~127	zoom size choose
		128~143	zoom effect 1
		144~159	zoom effect 2
		160~175	zoom effect 3
		176~191	zoom effect 4
		192~207	zoom effect 5
		208~223	zoom effect 6
		224~239	zoom effect 7
		240~255	zoom effect 8
CH27	Pattern B wave mode	1~39	wave speed and crest choose
		40~79	wave speed and crest choose
		80~119	wave speed and crest choose
		120~159	wave speed and crest choose
		160~199	wave speed and crest choose
		201~255	wave speed and crest choose
CH28	Pattern B gradually	1~127	drawing choose
		128~159	strobe
		160~191	two-way drawing
		192~223	one-way drawing
		224~255	one-way re-back drawing
CH29	Pattern B Deformation	0~15	invalid
		16~31	Deformation B (use with zoom channel)
		32~47	
		48~63	
		64~79	

CH29	Deformation B	80~95	Deformation B (use with zoom channel)
		96~111	
		112~127	
		128~143	
		144~159	
		160~175	
		176~191	
		192~207	
		208~223	
		224~255	
CH30	full color B mode (single color is invalid)	0~7	default color
		8~15	RGB
		16~23	R
		24~31	RG
		32~39	G
		40~47	GB
		48~55	B
		56~63	RB
		64~127	Swap color
		128~143	Swap color change
		144~159	three colors change
		160~175	three colors flow change
		176~191	7 color change
		192~207	7 color flow change
		208~223	color table change
		224~239	color table flow
		240~255	drawing effect speed choose

5-2、 Automatic play mode

In LED display by encoder knob to select "Operation mode" "Auto TRG". Then laser auto play the built-in pattern, animation effect(animation group and single animation play) .

5-3、 Music automatic play mode

In LED display by encoder knob to select "Operation mode" "Music TRG". Then need music trigger laser play.

5-4、 master-slave mode

Master--In LED display by encoder knob to select "System config" "Master/slave"Slave--In LED display by encoder knob to select"Operation mode""DMX Address", and set the DMX Address as 001

Sixth、 Safety warning and maintain

6 - 1 Safety warning:

- 1、 The installation should be carried by a qualified installer
- 2、 The fans and air-vents should not be jammed by other equipment or decorate materials.
- 3、 Avoid looking directly in the light source.

6 - 2 Maintain:

- 1、 Please read the user manual in detail before operating the equipment Please call the technician in case the machine broken down.
- 2、 Keep the equipment away from water or moisture.
- 3、 Make sure the power is off and the equipment is not connected to the mains power supply before opening the unit or carrying and any maintenance.
- 4、 If there has been any damaged caused to the laser diode by the user

Seventh、 Specification

1、 Power Input:AC100~240V,50/60Hz

2、 Power Consumption: ☐100W, ☐ 200W

3、 Laser: ☐ Single, ☐ RGB

4、 Laser modulation: ☐ TTL, ☐ Analog

5、 Scanner: ☐ ILDA20Kppc

☐ ILDA25Kppc

☐ ILDA30Kppc

☐ ILDA40Kppc

6、 DMX channel mode: 16CH/30CH

**7、 Control mode: Sound control/Automatic/Master-Slave
DMX512/ILDA**

Product common breakdown comparative chart

Breakdown cause	Major breakdown analysis and solution
The fixture no work	<ol style="list-style-type: none"> 1. Check the power cable whether to connect the fixture, whether the fuse does burn out. 2. Check the input voltage whether to assign the voltage match with the fixture.
No sound control	<ol style="list-style-type: none"> 1. Check the address code or the display whether establishes according to the instruction booklet is the voice control pattern. 2. Check the potentiometer possibly moves is smallest, attempt to adjust the potentiometer.
The fixture can bright normally, but it not controlled by controller	<ol style="list-style-type: none"> 1. Please check the fixtures' DIP outset address setting whether correctly. 2. Please check the XLR signal cable whether be damage.
Master-slave mode, The master mode is normal, but slave mode is not normal	<ol style="list-style-type: none"> 1. Please conformed only one for the master and the master without DMX be connected, and to set master as sound control or auto pattern. 2. If the Master-slave setting is right but still have problem, please check the XLR connect cable.
The button malfunction, does not work.	<ol style="list-style-type: none"> 1. Check the buttons whether to have some button not to have the normal reset.
The fixtures' brightness obvious dim	<ol style="list-style-type: none"> 1. Check the LED tubes or the laser already whether to be service life. 2. Check the internal and external optical system whether to be clean.

