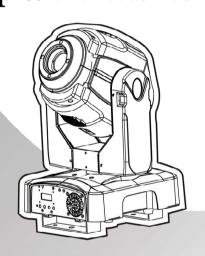
Moving head spot Tong-Da Industry Co., Ltd http://www.ur.url.tw/

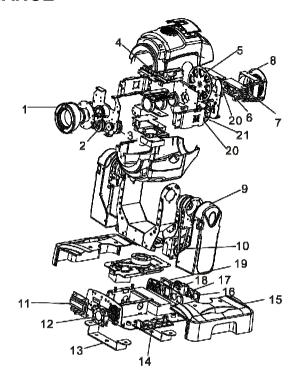


INDIGO 2000 INDIGO 3000

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5.2 MAINTENANCE



No	ITEM
1	Front lense cover
2	Prism
3	Motot
4	Motor driver PCB
5	Rotation gobo wheel
6	LED PCB
7	Heat sink
В	Head fan
9	Arm
10	Motor
11	Display PCB

No	ITEM
12	Base fan
13	Bracket
14	X/Y PCB
15	Base cover
16	XLR socket B
17	XLR socket A
18	Power socket
19	On/Off
20	Fixed gobo wheel
21	Color wheel

5 APPENDIX

5.1 TROUBLE SHOOTING

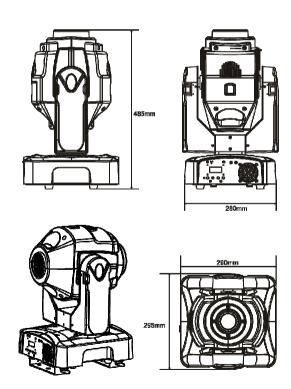
SITUATION	CAUSE		ACTION
	Power connection error		Check all Power connectons
No manuar	Fuse damaged		Replace Fuse
No power	Pow	er supply damaged	Replace Power supply
	Pow	er switch damaged	Replace Power switch
	LED driver PCB damaged		Replace LED driver PCB
LED not lit	LED	PCB damaged	Replace LED PCB
	LED	PCB connection error	Check the connections
	Ноэ	d fan error	Fan # (60x60x20)
Fan do not work	Tica	u iaii eiioi	Check the LED driver PCB
I all do not work	Bac	e fan error	Fan #(40x40x10)
	Das	e fair error	Check the power supply
Eivtura racat narmal	Disp	olay PCB damaged	Replaced Display PCB
Fixture reset normal,	DM)	K PCB damaged or DMX signal	Check DMX signal connection
But not be controlled	connection error		or replace DMX PCB
Deiana annan		Motor damaged	Replace motor
Prism error		Prism belt broken	Replace belt
Color wheel error	~	Motor damaged	Replace motor
Color wheel error	ERROR	Sensor PCB damaged	Replace sensor
	ER	Motor damaged	Replace motor
Gobo wheel error	CB	Gobo wheel blocked	Check or replace the gobo wheel
	Ē	Sensor PCB damaged	Replace the sensor
	RO	Motor damaged	Replace Pan motor
Pan movement error	Ž	Pan belt broken	Replace pan belt
Tan movement end	8	Magnetic sensor PCB	Replace the magnetic sensor
	209	Optical sensor damaged	Replace the optical sensor
Tilt movement error	LED607 CONTROL PCB	Motor damaged	Replace Tilt motor
		Tilt belt broken	Replace tilt belt
		Magnetic sensor PCB	Replace the magnetic sensor
		Optical sensor damaged	Replace the optical sensor

1 PRODUCT (GENERAL)

1.1 PRODUCT INTRODUCTION

This product is designed for indoor use only. Suitable for stage, bar or nightclub applications. Direct input of DMX512 signal allows the fixtures to be controlled from any DMX512 controller. The fixture is fully programmable with one custom program available and is supplied with two automatic programs (all accessible from DMX512 controller). This product can be operated as a single unit or with multiple units for large applications.

1.2 PRODUCT OVERVIEW



1.3 PRODUCT SPECIFICATIONS

Electrical

- ♦Voltage:AC100~240V 50/60Hz
- ♦Rated Power:150W

LED

- ◆LED:1PC(60W white)
- ◆Cooling:Forced air convection

Optical System

- ◆Focus:Electronic focus
- ◆Dimmer:0~100%
- ♦Strobe:0~20Hz
- ◆Rotating 3-facet Prism

Operation

- ◆Control mode: DMX512/Master-Slave/Auto/Custom/ Sound
- ◆LCD display
- ◆DMX512 Chs:11CHS/ 14CHS

Pan/Tilt

- ♦Pan 540 Tilt 270
- ◆Pan/Tilt speed
- ◆User-selectable Pan/Tilt ranges
- ◆Reverse Pan/Tilt movement

Rotating Gobo

- ◆7 Gobo (interchangeable)
- ◆Gobo-flow effect
- ◆Gobo shake
- ◆Bi-directional rotation

Static Gobo

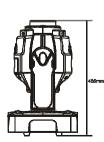
- ♦9Gobo
- ◆Gobo-flow effect
- ◆Gobo shake

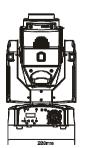
Color

- ◆8 dichroic filters + white
- ◆Rainbow flow effect

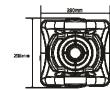
Other features

- ◆Custom program (255 steps)
- ♦Size:295x290x485mm
- ◆Weight:14kg







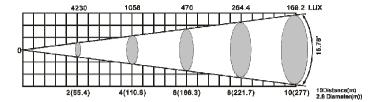


CHANNEL	VALUE	FUNCTION
6	0 ←⇒ 60 61 ←⇒ 158 159 ←⇒ 255	GOBO ROTATION Gobo indexing Clockwise rotating from slowto fast Anti-clockwise rotating from slowto fast
7	000 ⇔ 004 005 ⇔ 009 010 ⇔ 127 128 ⇔ 132 133 ⇔ 255	ROTATING PRISM NO FUNCTION Rotation Anti-clockwise rotating from slowto fast NO FUNCTION Clockwise rotating from slowto fast
8	000<⇒> 255	Focus
9	0<⇒ 255	DIMMER Dark————————————————————————————————————
10	0 ⇔31 32 ⇔63 64 ⇔95 96 ⇔127 128 ⇔159 160 ⇔191 192 ⇔223 224 ⇔255	STROBE Close Open Strobe: Slow > Fast Open Rulse strobe effect: Slow > Fast Open Random strobe effect: Slow > Fast Open
11	0 ⇔19 20 ⇔39 40 ⇔59 60 ⇔79 80 ⇔99 100 ⇔119 120 ⇔139 140 ⇔159 160 ⇔179 180 ⇔199 200 ⇔219 220 ⇔255	CONTROL No function Pan/tilt black activated (activated after 3 secs) Pan/tilt black deactivated (activated after 3 secs) Auto1 (activated after 3 secs) Auto2 (activated after 3 secs) Sound 1(activated after 3 secs) Sound 2(activated after 3 secs) Custom Test (activated after 3 secs) No function Reset (activated after 3 secs) No function

BASIC

CHANNEL	VALUE	FUNCTION
1	0≪⇒255	PAN 0~540°
2	0⇔255	TILT 0~270°
3	0 ⇔ 16 17⇔ 33 34⇔ 50 51⇔ 67 68⇔ 84 85⇔ 101 10€ ⇒ 118 119⇔ 135 136⇔ 152 153⇔ 255	COLOR WHEEL White Red Yellow Magenta Green Orange Blue Light blue Light Green Ralnbow or linear effect
4	0 ↔ 8 10 ↔ 19 20 ↔ 29 30 ↔ 39 40 ↔ 49 50 ↔ 59 60 ↔ 69 70 ↔ 79 80 ↔ 89 90 ↔ 99 130 ↔ 114 115 ↔ 129 130 ↔ 144 145 ↔ 159 160 ↔ 174 175 ↔ 189 190 ↔ 204 205 ↔ 219 220 ↔ 234 235 ↔ 255	FIXED GOBO WHEEL NO GOBO GOBO 1 GOBO 2 GOBO 3 GOBO 4 GOBO 5 GOBO 6 GOBO 7 GOBO 8 GOBO 9 Shaking gobo 9 Shaking gobo 7 Shaking gobo 7 Shaking gobo 6 Shaking gobo 6 Shaking gobo 5 Shaking gobo 4 Shaking gobo 2 Shaking gobo 2 Shaking gobo 1 Flow effect
5	0 ← 9 10 ← 18 20 ← 28 30 ← 39 40 ← 49 50 ← 59 80 ← 89 70 ← 78 80 ← 99 106 ← 110 120 ← 139 140 ← 159 160 ← 179 180 ← 199 200 ← 218 220 ← 255	GOBO WHEEL 1 & GOBO SHAKE NO Gobo Gobo 1 Gobo 2 Gobo 3 Gobo 4 Gobo 5 Gobo 6 Gobo 7 Shaking gobo 7 Shaking gobo 6 Shaking gobo 6 Shaking gobo 4 Shaking gobo 4 Shaking gobo 3 Shaking gobo 2 Shaking gobo 2 Shaking gobo 1 Flow effect

1.4 PHOTOMETRIC DATA



1.5 **SAFETY WARNING**

1.6

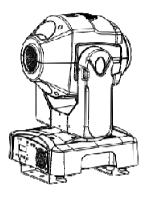
IMPORTANT:

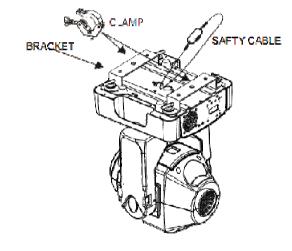
- •This product must be installed by a qualified professional.
- •Always operate the equipment as described in the user manual.
- •A minimum distance of 0.5m must be maintained between the equipment and combustible surface.
- •The product must always be placed in a well ventilated area.
- •Always make sure that the equipment is installed securely.
- DO NOT stand close to the equipment and stare directly into the LED light source.
- •Always disconnect the power supply before attempting and maintenance.
- •Always make sure that the supporting structure is solid and can support the combined weight of the products.
- •The earth wire must always be connected to the ground.
- •Do not touch the power cables if your hands are wet.
- •This product left the place of manufacture in perfect condition. In order to maintain this condition and for safe operation, the user must always follow the instructions and safety warnings described in this user manual.
- Avoid shaking or strong impacts to any part of the equipment.
- •Make sure that all parts of the equipment are kept clean and free of dust.
- Always make sure that the power connections are connected correct and secure.
- •If there is any malfunction of the equipment, contact your distributor immediately.
- •When transferring the product, it is advisable to use the original packaging in which the product left the factory.
- •Shields, lenses or ultraviolet screens shall be changed if they have become damaged to such an extent that their ef fectiveness is impaired.
- The lamp (LED) shall be changed if it has become damaged or thermally deformed.

2 INSTALLATION

2.1 MOUNTING

- •The LED fixture can be operated in any position at any angle. When mounted on a flat surface, the surface must be strong enough to support 10 times the weight of the fixture and stable so that there will be no damage caused to the fixture or surrounding people or objects because of movements of the fixture on the surface.
- •When the unit is mounted in a hanging position, the fixture is attached using the mounting brackets and a standard truss clamp or other clamping device. The mounting brackets supplied are mounted using quick-release locks allowing simple mounting or removal.





UPRIGHT

HANGING

IMPORTANT SAFETY NOTE!!

Always use a safety cable when installing this unit!!

Be sure that the safety cable is connected to a solid load-bearing structure.

CHANNEL	VALUE	FUNCTION
		GOBO WHEEL 1 & GOBO SHAKE
	0≪⇒8	NO Gobo
	10⇔19	Gebe 1
	20⇔29	Gobo 2
	30≪⇒39	Gaba 3
8	40<⇒49	Gobo 4
0	50 ←> 59	Gobo 5
	60 ⇔69	Gobo 6
	70 ⇔ 79 80 ⇔ 99	Gebe 7 Shaking gobo 7
	100<⇒119	Shaking gobo 6
	120≪⇒139	Shaking gobo 5
	140⇔159	Shaking gobo 4
	160⋘179	Shaking gobo 3
	180 ←> 199	Shaking gobo 2
	200<⇒>219	Shaking gobo 1
	220≪>255	Flow effect
		GOBO ROTATION
9	0⇔60	Gobo indexing
	61<⇒⇒158	Clockwise rotating from slow tofast
	159<> 255	Anti-clockwise rotating from slow tofast
		ROTATING PRISM
10	000<⇒>004 005<⇒>009	NO FUNCTION Rotetion
	010 > 127	Anti-clockwise rotating from slow tofast
	126<⇒>182	NO FUNCTION
	133<⇒> 255	Clockwise rotating from slow tofest
11	000≪⇒ 255	Focus
		DIMMER
12	0⇐⇒ 255	Dark Bright
		STROBE
	0⇔31	Close
	32≪⇒63	Open
	64≪⇒95	Strobe: Slow > Fast
	96≪⇒127	Open
13	128<⇒159	Rulse strobe effect: Slow > Fast
	160<=>191	Open
	192 <⇒>223	Random strobe effect: Slow > Fast
	224<>255	Ореп
		CONTROL
	0⇔19	No function
	20 😂 39	Pan/tilt black activated (activated after 3 secs)
	40 ← 59	Pan/tilt black deactivated (activated after 3 secs)
	60 😂 79	Auto1 (activated after 3 secs)
	80<⇒>99	AutoZ (activated after 3 secs)
14	100 😂 119	Sound 1(activated after 3 secs)
• •	120≪⇒139	Sound 2(activated after 3 secs)
	140 ←>159 160 ←>179	Custom Test (sotivated after 3 secs)
	180 <> 199	No function
	200 ⇔219	Resel (activated after 3 secs)
	220 ←⇒255	No function

4 USING A DMX512 CONTROLLER

4.1 BASIC ADDRESSING

- •Connect all of the units in series using standard DMX512 signal cable .
- •Set the DMX512 address in the DMX menu.
- •It is possible to have the same DMX address or independent addresses for each fixture.

4.2 CHANNEL ASSIGNMENT

•Note: This product have two DMX512 channel configuration:

[ADVANCED] and [BASIC].

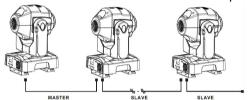
ADVANCED

CHANNEL	VALUE	FUNCTION
1	0<⇒>268	PAN 0-540°
2	0≪⇒255	PAN FINE Fine control of panmovement
3	0 ←> 265	TILT 0-270°
4	0≪⇒255	TILT FINE Fine control of tilt movement
5	0 ←⇒ 266	PAN/TILTSPEED From fast to slow
6	0 ↔ 16 17 ↔ 38 34 ← 50 51 ← 67 68 ← 84 85 ← 161 103 ← 155 136 ← 152 163 ← 265	COLOR WHEEL White Red Yellow Magenta Green Crange Blue Light Sean Raintow or linear effect
7	0 \$\infty\$ 0 10 \$\infty\$ 10 20 \$\infty\$ 20	FIXED GOBO WHEEL NO GOBO GOBO 1 GOBO 2 GOBO 3 GOBO 4 GOBO 5 GOBO 6 GOBO 7 GOBO 6 GOBO 8 Shaking gobo 9 Shaking gobo 8 Shaking gobo 7 Shaking gobo 5 Shaking gobo 6 Shaking gobo 1 Shaking gobo 2 Shaking gobo 2 Shaking gobo 2 Shaking gobo 1

2.2 SETTING UP (MASTER/SLAVE)

When units are connected in series using DMX512 signal cable connect the units as shown in the diagram below

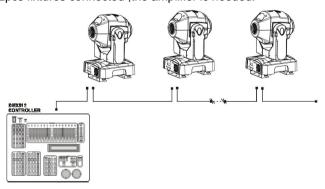
- •Connect the (male) 3 pin connector side of the DMX cable to the output (female) 3 pin connector of the first (MASTER) fixture.
- •Connect the end of the cable coming from the MASTER fixture which will have a (female) 3 pin connector to the input connector of the next fixture consisting of a (male) 3 pin connector.
- •Then proceed to connect from the output as stated above to the input of the following fixture and so on.
- •Set the first unit in the series to one of the STAND ALONE modes as described in section 2.2
- •All other units in the series should be set to <SLAVE> from the <operation> menu.



2.3 SETTING UP (DMX512 CONTROLLER)

When units are connected in series to a DMX512 controller and other DMX512 equipment, connect the equipment as shown in the diagram below.

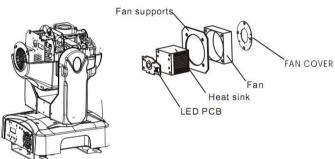
- •Connect the (male) 3 pin connector side of the DMX cable to the output (female) 3 pin connector of the controller.
- •Connect the end of the cable coming from the controller which will have a (female) 3 pin connector to the input connector of the next fixture consisting of a (male) 3 pin connector.
- •Then proceed to connect from the output as stated above to the input of the following fixture and so on.
- •If over 32pcs fixtures connected, the amplifier is needed.



2.4 LED PCB REPLACEMENT

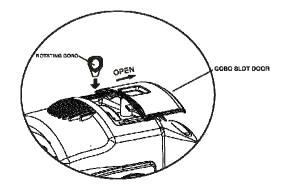
- •Take off the head cover.
- •Remove the fan cover, fan, fan supports, heat sink step by step.
- •Replace the new LED PCB.
- •Install all parts on the original position.



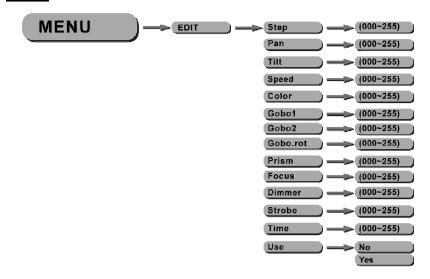


2.5 GOBO REPLACEMENT

- Unlock the gobo cover
- •Take out the target gobo.
- •Install the new gobo, lock the gobo slot door .



3.7 EDIT



[Edit]

- Enter the [Edit] mode to edit the custom programs by adjusting the value of [Step], [Pan], [Tilt], [Speed], [Color], [Gobo 1], [Gobo 2], [Gobo.rot], [Prism], [Focus], [Dimmer], [Strobe], [Time]
- •Enter [use] and select [yes] to run the steps user need.

Note: if user want to circulate the created steps, please set the last step's $\mbox{[Time]}$ as 0

For example, there are 3 steps, the setting should be like belowed:

Step 1 【Time】 = 4 【use】 = Yes Step 2 【Time】 = 5 【use】 = Yes Step 3 【Time】 = 0 【use】 = Yes

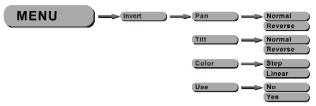
3.8 **DEFAULT**



[Default]

•This functions will reset all setting to the original factory setting

3.4 Invert



[Invert]

- •Select [Pan] / [Tilt] to set [Normal] or [Reverse]
- •Select [Color] to select the color wheel flow way [Step] or [linear]
- •Enter [Use] and set [Yes] to run the new setting

3.5 Range



[P/start]

• Set pan start value [000~255]

【P/Finish】

• Set pan finish value 【000~255】

[T/start]

• Set Tilt start value [000~255]

【T/Finish】

• Set Tilt finish value [000~255]

[Use]

• Enter **[Use]** and select **[Yes]** to open the operation of X/Y angle

3.6 Special



• Enter **[Black]** to choose **[No]** without delay or **[Yes]** 3seconds delay

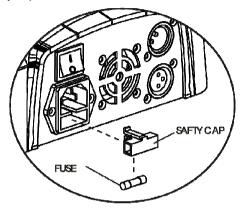
[Reset]

•Enter [Reset] to choose [DMX] DMX control reset or [System] DMX

cannot control reset

2.6 FUSE REPLACEMENT

- •Remove the safety cap by a screwdriver.
- •Fetch the old fuse from safety cap.
- •Install a new fuse.
- •Install the safety cap.



3 DISPLAY PANEL OPERATION

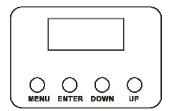
3.1 **BASIC**

[MENU] Scroll through the main menu or exit from the current sub-menu

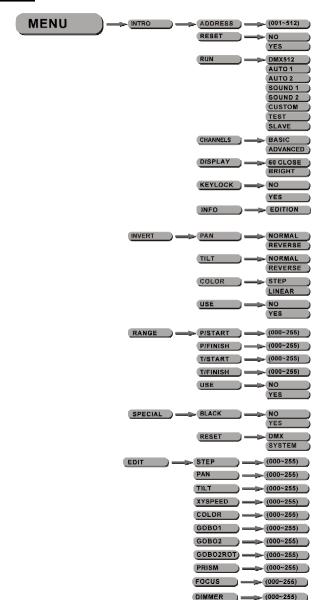
【ENTER】 Enter the currently selected menu or confirm the current function value

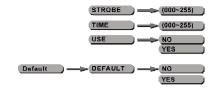
【DOWN】 Scroll 'DOWN' through the menu list or decrease the value of the current function

【 UP 】 Scroll 'UP' through the menu list or increase the value of the Current function

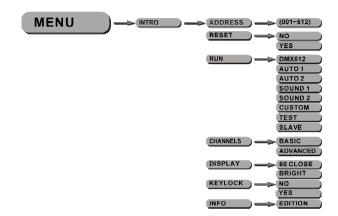


3.2 MENU





3.3 INTRO



[Address]

- Enter 【Address】 to set the DMX Address, which is from (001-512)
 【Reset】
- In order to rest custom modest to default, select 【Reset】
- Enter [Run] to select the operation mode: [DMAX512]; [Auto1];
 [Auto2]; [Sound 1]; [Sound 2]; [Custom]; [Test]; [Slave]
 [Channels]
- Enter [Channels] to select the DMX channel modes: [Basic]; [Advanced] [Display]
- Enter 【Display】 to select the lighting time of the LCD display panel.
 【Keylock】
- Enter the [Keylock] mode to select whether the access password is on or off.
- When the fixture is set as PASS [ON], after 30 seconds or turn on the fixture next time, the fixture will need an access password to enter the display menu control.

Note: The factory access password is **[UP]** + **[DOWN]** + **[UP]**

- + 【DOWN】, then press【ENTER】 to confirm the access. 【Info】
- Enter [Info] to see the version of the software.