# **Moving Head**

**TD-371 BEAM** 

**User's Manual** 

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# Contents

Safety instructions	. 3
General guidelines	. 4
Packing and shipping	. 5
Protection lock	. 5
Unpacking	. 5
Packing after use	. 5
Accessories	. 6
Product introduction	. 6
Installation	. 7
Clamps installation	. <b>7</b>
Device installation	. <b>7</b>
Lamp fitting and adjustment	. 8
Power / Control connection	. 9
Power connection	. 9
Control connection	. 9
Testing	. <b>9</b>
Control panel	10
Gobos and colors	10
Gobo specification	10
Gobos	11
Colors	11
Menu structure	12
DMX protocol	14
Technical specification	20
Cleaning and maintenance	22
Troubleshooting	23
System wiring diagram	25
Spare parts list	26
Appendix 1	26

# Safety instructions

•	WARNING!
	Before using the fixture, read the latest version of the product user manual, paying particular attention to the safety instructions. Please check <u>www.gtd-lighting.com</u> for the latest revision/update of the user manual. The manufacture of this fixture, are not responsible for damages, resulting from misuse of this fixture, due to the disregard of the information printed in this user manual.
	DANGER! Hazardous voltage. Risk of lethal or severe electric shock.
	WARNING! Burn hazard. Hot surface. Do not touch.
	WARNING! Fire hazard.
	INDOORS USE ONLY! Do not expose fixture for rain and moisture.
	It's essential that the fixture is properly grounded. Only qualified personnel should perform electrical connections.
	WARNING! Wear protective eyewear. Never look directly into the light source.
	ntion to when using the product: avoid fire, heat, electric shocks, ultraviolet radiation, the damage of

- severe or fatal injury. Read the instructions before electricity or installation. Follow the operation safety precautions and pay attention to the instructions and warning signs on the product.
- Only qualified and certified personnel should perform installation of this fixture and only the original rigging parts (brackets) included with this fixture should be used for installation.
- Before applying power to the fixture, check that the source voltage matches the fixture's requirement. Every fixture must be earthed (grounded) and installed in accordance with local electricity regulations. Do not connect it to a dimmer system.
- Never look directly into the light source of this fixture to prevent risk of injury to your retina, which may induce blindness.
- The fixture should be positioned so that prolonged staring into the fixture at a distance closer than 4m is not expected.

### **General guidelines**

- Never open this fixture while in use.
- The fixture should be kept clean. **DO NOT** operate the fixture in extreme heat or dusty environments. Avoid contact with chemical liquid.
- This fixture is a professional light effect designed for INDOOR / DRY LOCATIONS ONLY on stage, in nightclubs, theatres, etc.
- Minimum distance to lighted objects must be 49.21feet (15m).
- Maximum temp of the external surface 302°F (150°C).
- Maximum ambient temperature 113°F (45°C).
- Minimum distance of inflammable materials from the surface 1.6 feet (0.5m).
- Lamp should be changed if damaged or distorted in shape due to extreme heat.
- The light source of the fixture should be changed by the manufacture or its service agent or certified technicians. WARNING! Risk of electric shock.  $\sqrt{\frac{1}{2}}$
- The basic insulation should be kept between the controllable device and the power supply.
- Cover, prism or LCD Menu Function Display with visible damages such as cracks or scratches must be replaced to ensure performance of the fixture.
- Disconnect the fixture from power before changing any parts or accessories.
- Make sure that the installation area can hold a minimum point load of 10 times the weight of all installed fixtures, clamps, cables, auxiliary equipment, etc. Check that the cover, clamps and locks are undamaged. Certified safety cables must always be used when installing the fixture.
- The fixture is only intended for installation, operation and maintenance by qualified professional. Instructions stated in the manual must be complied.
- The fixture must be kept in a well-ventilated place at least 50 cm away from any wall surface. Check if the fans or ventilation openings are unblocked.
- This fixture uses discharge lamp. To avoid reducing the lamp's life, wait at least 15 minutes after powering off to allow the unit to cool down before handling.
- Broken or damaged cables can only be fixed or changed by certified technicians, certified local distributors or the manufacturer to ensure operational safety.
- Do not stick filters or other materials onto the lens. Do not modify the fixture or install other than GTD manufactured parts.
- For questions regarding safety operation, please contact our technical personnel or call the service hotline +8620 61808296.

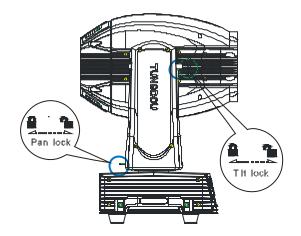
### Packing and shipping

### **Protection lock**

Pan and tilt locks are equipped to ensure safe transportation.

PAN: 4 lock positions are located evenly on the Pan.

TILT: 7 lock positions are located on left and right side of the Tilt with the third one in the center.



### Unpacking

### ▲Notes

All products are quality controlled and checked for any faults before they are dispatched to customers. If the fixture is damaged during delivery, the customer must notify the shipper and manufacturer to file a damage insurance claim. Photographic evidence of the damage must be provided.

#### Flight-Case

Open the cover of the flight-case and remove the plastic packing bags. Hold the handles of the fixture firmly and take it out carefully.

Size: 95\*56\*76cm (2pcs/carton)

#### **Cardboard box**

Open the box and take out the whole set of packaging foam which contains both the fixture and its accessories. Remove the foam from the top, put away the accessories, and then take out the fixture wrapped in the plastic bag.

Size: 54.5\*45\*60.5cm (1pc/carton)

#### ⚠Notes

Check if the pan and tilt are unlocked before connecting the fixture to power.

#### Packing after use

- 1. Switch off the fixture and wait for at least 5 minutes before disconnecting it from AC power. Cool down the fixture for at least 15 minutes before packing.
- 2. Lock pan and tilt.
- 3. Flight case: Wrap the fixture in plastic bags. Hold it by the handles, and then carefully place it inside the flight case along with all the accessories. Close the cover. Only 2 layers are allowed when piling up the flight cases. Do not upside down.

Cardboard box: Wrap the fixture in plastic bags. Put it in the packaging foam along with all the accessories. Place the other set of packaging foam on top then carefully put it inside the cardboard box.

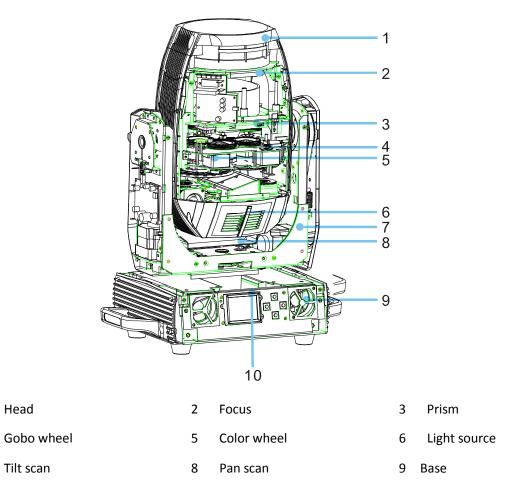
### Accessories

ltem	Qty	Unit	Notes
User Manual	1	рс	
Clamp	2	set	Straight type 02A+21A 42-52mm, Max. 200 kg;
Safety cable	1	set	Ø 4*60cm, 7*19 stocks, with hook, material: steel;
Signal lines	1	рс	
Power cable	1	рс	Without the power cable when the lamp with the lead line;

### ⚠Notes

Accessories are subject to change without any prior written notice.

### **Product introduction**



10 LED Display

## Installation

### **Clamps installation**

1

4

7

The fixture can be placed on the stage or mounted on the truss facing any direction. Attach the clamps to the mounting

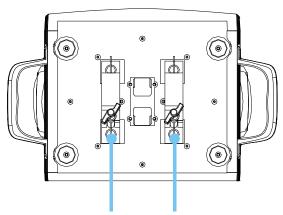
position on the base of the fixture.

### **A**Warning

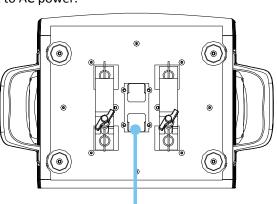
Use two clamps when mounting the fixture. Turn the screws attached to each clamp a 1/4 turn clockwise to lock. Always remember to use the safety cable which goes through the mounting hole on the base. Do not attach the safety cable on the handle.

### **Device installation**

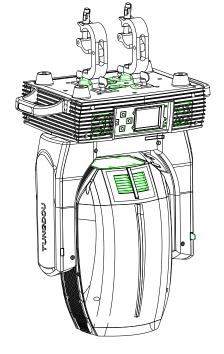
- 1. Make sure there is no damage on the clamps or safety cables before installation.
- 2. The clamp is mounted on the chassis of the fixture. Horizontally insert the clamp into the mounting holes of the chassis. Fasten the clamp tightly by a 1/4 turn clockwise. Fix another clamp in the same way.
- 3. Check if pan and tilt are unlocked before connecting the unit to AC power.

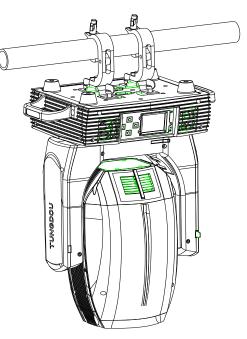






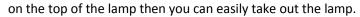
Safety cable mounting position

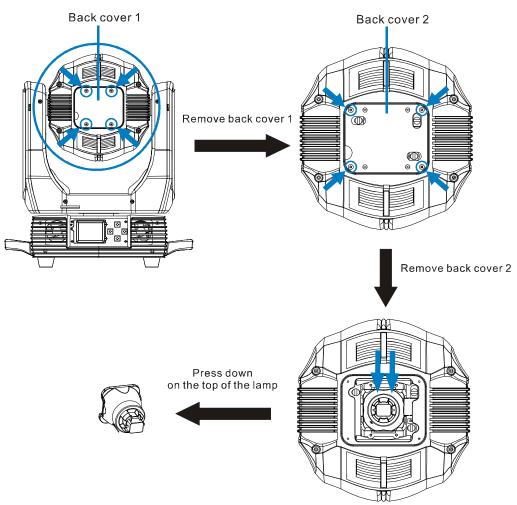




## Lamp fitting and adjustment

- 1. Disconnect the fixture from AC power. Allow the fixture to cool down for at least 15 minutes. Put the Tilt lock-catch in the horizontal position.
- 2. Dismounting the lamp (see below): Loosen the 4 screws on the back cover 1 to remove the back cover of the shell first; Use the same way to remove the back cover 2. Then unplug the connection line on the lamp. Gently press down





- 3. Installing the lamp (see above): Carefully insert one side of the lamp into the springy retainer. Then push down on the lamp. Plug in the lamp connection line. Finally, install the back cover 2 and 1.
- 4. Make sure the new bulb is installed in the right position on the holder and the mounting holes are fixed, and the midline of the lamp is aligned with the center point of the effect assembly (consisting of the rotating gobo wheel, static gobo wheel, color wheel, strobe, prism, and frost), focus module, and object lens.

### ⚠Notes

The fixture uses OSRAM TI\_SIRIUS HRI 371W S, featuring low power consumption and high performance with a stable 7000K color temperature. Its average life span is 1500 hours.

### AWrning

Fitting another type of lamp will cause potential damage to the fixture. Change the lamp before it reaches its lifespan. Read the guidelines in the package carefully when fixing the lamp.

To avoid any impact on the beam, do not touch the bulb with your bare hands. The lamp must be kept clean with the use of the clean paper contained in its package.

### **Power/ Control connection**

### **Power connection**

Connection method:

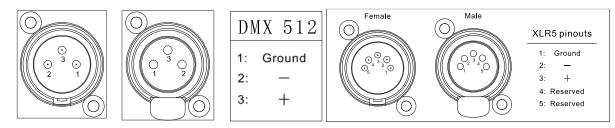
- L (Live) Brown wire
- E (Earth) Yellow / Green bi-color wire
- N (Neutral) Blue wire
- The voltage and frequency of the power source must be in compliance with the ones marked on the fixture. It is strongly recommended that each fixture are to be connected to the power source separately so that they can be switched on / off individually.

### ▲Notes

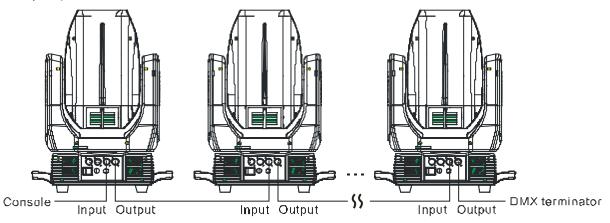
It is essential that each fixture is correctly grounded and the electrical installation conforms to all relevant Standards / Codes of Practice for Safe Electrical Work.

### **Control connection**

The fixture has 3-pin or 5-pin XLR connectors for DMX data input and output as below shown. Please use a professional DMX 512 shielded twisted pair signal cable. Maximum connecting distance of signal cable is 150 meters. Must to use the DMX512 signal-amplifier when long-distance signal transmission.



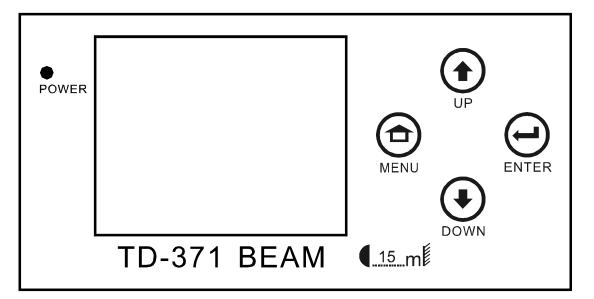
Connect the Console's DMX OUTPUT to the first fixture's DMX INPUT, then the first fixture's DMX OUTPUT to the second fixture's DMX INPUT and so on. It is recommended not to connect more than 32 units on a single DMX universe. On the last fixture's output connect a DMX terminator. (The terminator is a XLR connector with a  $\frac{1}{4}$  W and 120 $\Omega$  resistor between the pin 2 and pin 3) as shown below:



### Testing

Connect the fixture to AC power. Check if the lamp is on and the fixture is independently controllable before putting into operation.

## **Control panel**



- The control panel features touch-sensitive buttons and LCD digital display for quick and easy setup of address code and functions menu.
- Press UP or DOWN to view or select the function menu.
- Press ENTER to choose a function and enter into corresponding sub menu. Each menu represents a specific function of the fixture.
- Press ENTER to select the specific function and save the changes or enter into the submenu, then press UP or DOWN to change the value of the selected function (increase or decrease).
- Press MENU to return to the previous menu or exit.
- LED indicators:
  - > Power on: RED power LED indicator on

### **Gobos and colors**

#### **Gobo specification**

All patterns are made onto the metal gobos, and can be customized according to user's requirement. The customized size is as below:

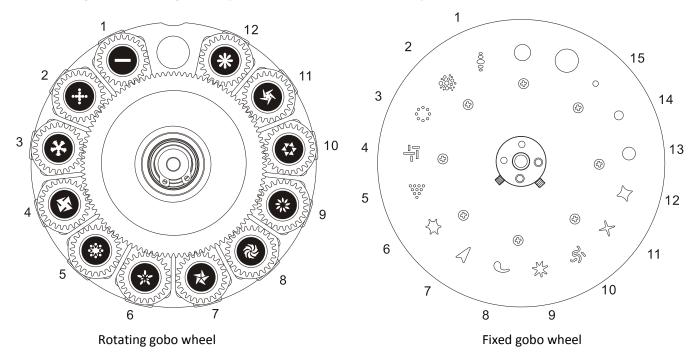
Gobo material	Outer dimension	Effective dimension	Thickness
Metal gobo	¢ 11.9mm	¢ 6mm	¢ 0.5mm

#### **Notes**

Metal Gobo is made of high temperature resistant aluminum alloy in laser cutting.

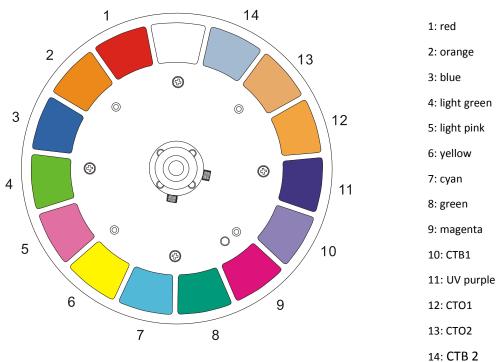
#### Gobos

- One rotating gobo wheel: 12 interchangeable gobos + open, indexing, CW/CCW rotation, variable speed
- One fixed gobo wheel: 15 gobos + open, CW/CCW rotation, variable speed



### Colors

• One color wheel: 14 colors + open, split color, CW/CCW rotation, variable speed



### Menu structure

		X371 I	N BEAM–Menu Structure	
Revision:	A			Valid from firmware version:1.0
Level 1	Level 2	Level 3	Level 4	Info
Run setting	Address Setting Value Display Auto-Program IP Setting Mask Address SysID Setting	Address: 001~ XXX Pan, All, No Master/Alone 192.168.xxx.xxx 255.255.255.xxx xxx		Setting the DMX address Display the channel value Run auto program in master or slave Setting ARTNET network address Setting ARTNET subnet address Setting Device ID
Device Info	Time Info	This Time Total Time Last Time Lamp On Time Lamp Off Time Last Time Code Clear Last Time Lamp Time Code Clear Lamp Time	XXXXXX Hour XXXXXX Hour XXXXXX Hour XXXXXX Hour XXXXXX Minute Password: xxx(88) Yes/No Password: xxx(111) Yes/No	Since power on time Product total run time Last product run time Lamp on time Lamp close time Clear last time password Clear lamp time password Clear lamp time
	Temperature	Body Temperature	XXX 'C/'F	Body temperature
	Fans Info	NO/		
	Err Info	No Err/		
	Software Version	XX RDM Code 0032-xxxxx		The software version and RDM code
Lamp Control	Lamp On or Off Automatic La-On Lamp On Via DMX Lamp Off Via DMX Lamp On Temp. Lamp Off Temp.	On/Off Enable/Disable Enable/Disable 20~79, 45'C /68~174 , 113'F 80~139, 130'C/176~282,266'F		Open lamp Power on open lamp Console open lamp Console close lamp Open lamp below temperature Close lamp above temperature
System Setting	Status Setting	Console Set Addr No Signal Status Pan Reverse Tilt Reverse Pan Scan Degree Scan Feedback Standby Time	Enable/Disable Off/Hold/Auto/Music Enable/Disable Enable/Disable 360/540 Enable/Disable Disable/1~20 Min, 30	Address can be changed by console The status while no signal Pan Reverse Tilt Reverse Pan Scan Degree Scan Feedback Standby time
	Fan Speed	Smart Control High Speed Low Speed		Auto fans speed Fans high speed Fans low speed
	Display Setting	Backlight Time Keyboard Lock	1~80 Min/Disable Enable/Disable	Backlight off time Press <menu> 3s to unlock</menu>

r	1	1		
		Brightness Set	15%~100% 80%	Brightness Set
		Language	Chinese/English	Change the language
		Auto Screen Set	on/off/Auto	Screen display upside down
	Temperature Unit	Celsius		Temperature unit
		Fahrenheit		
	Value Default	Pan	Pan =XXX	The default value
	Wireless Dev	Wireless Off		Wireless off
		Wireless On		Wireless on
		Wireless Trans.		Wireless transfer DMX data to another
		Wireless Reset		Wireless reset
	Dimmer Mode	M0:~M5: M1		Dimmer mode select
	Restore Default	Restore/Cancel		Restore to default value
Motor	System Reset			System reset
Reset	Scan Reset			Pan and tilt motor reset
	Color Reset			color motor reset
	Gobo Reset			gobo motor reset
	Strobe Reset			strobe motor reset
	Other Reset			other motor reset
Channel	Test Mode	Pan		Every channel test
Adjust	Manual Mode	Pan	Pan =XXX	Manual control
		:	:	
	Adjust Mode	Input Password	Password=XXX(99)	The password of adjust mode
		Pan	Pan=XXX	Fixed all begin position
		:	:	
Channel	Channel Mode	Standard Mode		Standard channel mode
Setting		Simplified Mode		Simplified channel mode
		Extended Mode		Extended channel mode
		Custom Mode A		Custom channel mode A
		Custom Mode B		Custom channel mode B
		Custom Mode C		Custom channel mode C
	Set Custom	Max Channel	Channel = XX	Change the channel order
	Mode1	Pan	Pan = CH01	
	Set Custom	:	:	
	Mode2			
	Set Custom Mode3			
Program	Select Group	Program Unit 1	Auto-Program 1 ~10	Choose build-in program for slave 1
Edit		Program Unit 2	Auto-Program 1 ~10	Choose build-in program for slave 2
		Program Unit 3	Auto-Program 1~10	Choose build-in program for slave 3
	Program Edit	Auto-Program1	Program Test	Test the auto program
	-	:	Step 1=Scene xxx	The start scene of the program
		Auto-Program10	Step 64=Scene xxx	The end scene of the program
	Scene Edit	Scene Edit:001-250	Pan, (Pan=xxx)	Edit the channel DMX
			Scene T: (=xxxS)	Edit the scene time
			Rec. Outside	Get scene DMX form console
	Bocord Scone	Scono VV NVV		
ĺ	Record Scene	Scene XX->XX		Record scene form console

### ▲Notes

Settings highlighted in light grey are default values.

# DMX protocol

	TD-371 Beam - DMX Protocol														
Revision:	А		Valid from firmware version: 1.0												
DMX mode	e														
Standard (18ch)	Simplified (15ch)	Extended (20ch)	Name	DMX	value	DMX percentage		Function	Default DMX Value						
				0	31	0.0%	12.2%	Closed							
				32	63	12.5%	24.7%	Open							
1	1	1	Strobe/Shutter	64	127	25.1%	49.8%	Synchronous strobe from slow to fast	0(0%)						
1		Shopershuller	128	159	50.2%	62.4%	Open	0(0%)							
			160	223	62.7%	87.5%	Random strobe from slow to fast								
				224	255	87.8%	100.0%	Open							
2		2	Intoncity	0	255	0.0%	100.0%	No light → Full light							
3	2	3	Intensity	0	65535	0.0%	100.0%	Intensity fade, fine (LSB)	0(0%)						
				0	7	0.0%	2.7%	Open	-						
				8	15	3.1%	5.9%	Color 1							
				16	23	6.3%	9.0%	Color 2							
										24	31	9.4%	12.2%	Color 3	
				32	39	12.5%	15.3%	Color 4							
				40	47	15.7%	18.4%	Color 5							
				48	55	18.8%	21.6%	Color 6							
				56	63	22.0%	24.7%	Color 7	1						
				64	71	25.1%	27.8%	Color 8							
				72	79	28.2%	31.0%	Color 9							
4	3	4	Color wheel	80	87	31.4%	34.1%	Color 10	0(0%)						
				88	95	34.5%	37.3%	Color 11							
				96	103	37.6%	40.4%	Color 12							
				104	111	40.8%	43.5%	Color 13							
				112	127	43.9%	49.8%	Color 14							
				128	187	50.2%	73.3%	Color1 continous rotation CW from fast to slow							
				188	195	73.7%	76.5%	Stop	]						
				196	255	76.9%	100.0%	Color1 continous rotation							

5     4     5     600     15     0.0%     5.9%     0pen gobo       16     17     6.3%     6.7%     Gobo 1       20     21     7.3%     6.7%     Gobo 4       22     23     8.6%     9.8%     Gobo 4       24     25     9.4%     9.8%     Gobo 5       26     27     10.2%     10.6%     Gobo 7       30     31     11.8%     12.5%     Gobo 9       32     33     12.5%     12.9%     Gobo 9       34     35     13.3%     13.7%     Gobo 11       36     37     14.1%     14.5%     Gobo 13       4     45     17.3%     17.6%     Gobo 13       63     67     24.7%     24.3%     Gobo 14       44     45     17.3%     17.6%     Gobo 15       68     72     26.7%     24.3%     Gobo 2       63     67     24.7%     26.3%     Gobo 6       63     67									CCW from slow to fast	
5     4     5     6     6     17     6.3%     6.7%     6.0%     1       18     19     7.1%     7.5%     6.060.3     2     2     2     3     8.2%     6.060.5     2     2     2     3     8.2%     9.0%     6.060.5       26     27     10.2%     10.4%     6.060.7     3     3     1.1%     6.060.9     3     3     1.1%     6.060.9     3     3     1.1%     6.050.1     3     3     1.1%     1.2%     6.060.9     3     3     1.1%     1.2%     6.060.9     3     3     1.1%     1.2%     6.060.9     3     3     1.3%     1.3%     6.060.10     3     3     1.1%     1.5%     6.060.10     3     3     1.1%     1.5%     6.060.14     3     3     1.1%     1.5%     6.060.14     3     3     1.1%     1.6%     6.060.13     3     3     1.1%     1.5%     6.060.13     3     1.1%     1.1%     1.1%					0	15	0.0%	5.0%		
5     4     5     6     6     7     7     7     8     6     0										-
5     4     5     6     6     1     7.8%     8.2%     6     6     1       6     7     10.2%     0.4%     9.4%     9.4%     6     6     7       10     11.4%     6     0.6%     0     6     6     7       30     31     13.8%     12.3%     6     6     7       30     31     13.8%     12.3%     6     6     7       30     31     13.8%     13.3%     6     6     7       30     31     15.7%     6     6     7     1     6     6     7       40     41     15.7%     16.1%     6     6     1     5     6     1       40     41     15.7%     16.1%     6     1     1     5     6     1       6     7     18.0%     18.4%     0     1     1     1     1     1     1     1     1     1										-
5     4     5     0     600 wheel(state)     22     23     8.6%     9.0%     600 4       24     25     9.4%     9.8%     60b 5     600 6       26     27     10.2%     10.6%     60b 6     600 6       28     29     11.0%     11.4%     60b 7     600 9       30     31     12.5%     60b 10     60b 11     60b 11       38     30     14.9%     15.3%     60b 12       40     41     15.7%     16.6%     60b 14       44     45     17.3%     17.6%     60b 12       44     45     17.3%     17.6%     60b 12       44     45     17.3%     17.6%     60b 13       68     62     28.7%     24.3%     60b 15       68     62     27.7%     24.3%     60b 13       61     72     18.8%     20.4%     60b 13       61     72     28.7%     26.3%     60b 14       61     7										-
5     4     5     9,4     26     27     10,28     10,68     600 5       18     29     10,08     11,48     600 7     300     31     11,48     600 7       30     31     11,88     12,28     60b 8     300     31     11,48     60b 7       30     31     11,88     12,28     60b 9     30     31     11,48     60b 7       30     32     13,38     13,78     60b 11     30     31     14,38     45.85     60b 11       38     39     14,39     15.38     60b 12     60b 14       44     45     17.37     16.1%     60b 14       44     45     17.38     17.6%     60b 14       44     45     17.3%     17.6%     60b 14       45     18.87     18.48     20.4%     60b 14       46     47     18.0%     18.4%     60b 14       47     18.0%     24.3%     60b0     16       63 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td>										-
5     4     5     5     6     7     10.2     10.2     10.6     6     6       18     29     10.3     1.4%     60b 0 7     30     31     1.4%     60b 0 7       30     31     1.2%     12.9%     60b 0 3     32     32     32     32     32.9%     60b 0 11       36     37     1.4%     14.5%     60b 0 13     60b 13       40     41     1.5%     16.3%     60b 14       44     45     1.3%     12.6%     60b 13       42     43     1.5%     16.3%     60b 14       44     45     1.3%     12.4%     60b 13       44     48     5     1.8%     24.4%     60b 13       5     18.8%     12.4%     18.4%     60b 13       6     17     18.0%     18.4%     60b 13       6     17     18.7%     18.4%     60b 13       6     17     18.0%     18.4%     60b     6										
5     4     5     60b0 wheel (static)     28     29     11.0%     11.4%     60b0 7       13     31     11.8%     12.2%     60b0 9     34     35     13.3%     13.7%     60b0 10       34     35     13.3%     13.7%     60b0 11     60b0 11       38     39     14.1%     14.5%     60b0 12       40     1     15.7%     16.5%     60b0 14       42     43     16.5%     16.9%     60b0 14       44     45     17.3%     17.6%     60b0 14       44     45     17.3%     16.5%     60b0 14       46     47     18.0%     18.4%     0pen gobo       5     60b wheel (static)     13     61     7.6%     60b0 13       63     67     24.7%     26.3%     60b0 13     60b0 14       63     67     24.7%     26.3%     60b0 13       64     7     8.2     30.6%     32.2%     5nake       7     7										
N     N										
5     4     5     3     3     1										
5     4     5     3,3     3,3     1,3,7     Gobo 10       36     37     14,18     14,58     Gobo 12       4     5     1,1     1,5,78     1,6,18     Gobo 13       4     4     1,5     1,5,78     1,5,78     Gobo 14       4     4     1,5     1,5,78     1,5,78     Gobo 14       4     4,5     1,7,38     1,7,86     Gobo 14       4     4,5     1,7,38     1,7,86     Gobo 14       4     4,5     1,7,38     1,7,86     Gobo 15       5     1,8,87     1,8,48     0,96     3       5     1,8,8     2,0,48     Gobo 2,2     Shake     3       6     1,7     1,8,8     2,0,48     Gobo 3     Shake     3       6     1,7     2,1,7     2,6,38     3,2,24     Gobo 6     Shake     1       7,8     8,2     3,0,68     3,2,24     Gobo 6     Shake     1       8,8     1,7     2,5,78										
5     4     1										-
5     4     5     60b0 wheel (state)     38     39     14.98     15.3%     Gobo 12       5.     4     5.     16.1%     60b0 14     60b0 14     60b0 14       6.0     12.0     17.3%     17.6%     60b0 15     60b0 15       6.0     18.0%     18.0%     18.0%     0pen gobo     18.0%     18.0%     0pen gobo       6.0     7.0     18.0%     22.4%     Gobo 11     3hake 11     15.3%     16.1%     60b0 13       6.0     7.0     28.6%     22.7%     24.3%     Gobo 3     60b0 3       6.8     7.2     26.7%     28.2%     Gobo 4     63b										
5     4     5     600     41     15.7%     16.1%     Gobo 13       5     4     43     15.5%     16.9%     Gobo 14       40     43     15.3%     17.6%     Gobo 15       46     47     18.0%     18.4%     Open gobo       48     52     18.8%     20.4%     Gobo 13       58     62     22.7%     24.3%     Gobo 3       68     7     26.7%     28.2%     Gobo 3       690     73     77     28.6%     Gobo 3       68     72     26.7%     28.2%     Gobo 3       690     73     77     28.6%     30.2%     Gobo 3       690     73     77     28.6%     30.2%     Gobo 3       690     73     77     28.6%     30.2%     Gobo 3       690     73     77     28.6%     30.1%     Gobo 3       690     73     77     36.5%     36.1%     Gobo 3       691     73										-
5     4     5     4     4     4     4     5     16.5%     60.00 14     60.00 15       6     47     18.0%     18.0%     0.00 0     60.0 11     60.0 11       7     18.0%     18.0%     0.00     60.0     1     60.0     1       6     7     18.0%     20.4%     60.0     1     60.0     1       6     7     20.8%     20.4%     60.0     2     60.0     1       6     7     20.7%     24.3%     60.0     3     6 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td>										-
5     4     45     17.3%     17.6%     Gobo 15       75     4     5     18.4%     45     18.0%     18.4%     Open gobo       75     4     5     18.8%     20.4%     Gobo 1     Shake     1       75     73     77     20.8%     22.4%     Gobo 3     Gobo 3       76     63     67     24.7%     26.3%     Gobo 4     Shake     6       76     77     28.6%     30.2%     Gobo 5     Shake     6       78     77     28.6%     30.2%     Gobo 4     Shake     6       78     82     30.6%     32.2%     Gobo 7     Shake     6       78     82     30.6%     32.2%     Gobo 8     Shake     6       88     92     34.5%     36.1%     Shake     6       98     97     36.5%     38.0%     Gobo 10     Shake     6       98     102     38.4%     40.0%     Gobb 11     Shake										-
5   4   5   6000 wheel (static)   46   47   18.0%   18.4%   Open gobo     5   4   5   18.8%   20.4%   Gobo 1   Gobo 3   Gobo 3     58   62   22.7%   24.3%   Gobo 3   Gobo 4   Gobo 4     63   67   24.7%   26.3%   Gobo 5   Shake   Gobo 5     73   77   28.6%   30.2%   Gobo 6   Shake   Shake   Gobo 8     74   82   30.6%   32.2%   Gobo 6   Shake										-
5   4   5   Gobo wheel (static)   48   52   18.8%   20.4%   Gobo 1 Shake   600   1     5   57   20.8%   22.4%   Gobo 3 Shake   3   600   3     68   62   22.7%   24.3%   Gobo 5 Shake   600   6     68   72   26.7%   28.2%   Gobo 6 Shake   6     73   77   28.6%   30.2%   Gobo 8 Shake   6     78   82   30.6%   32.2%   Gobo 9 Shake   6     78   82   30.6%   32.2%   Gobo 9 Shake   6     88   92   34.5%   36.1%   Gobo 10 Shake   6     93   97   36.5%   38.0%   Gobo 10 Shake   6     94   102   38.4%   40.0%   Gobo 10 Shake   6     94   102   38.4%   40.0%   Gobo 12 Shake   6     103   107   40.4%   43.9%   Gobo 12 Shake   1										-
43   52   18.87   20.4%   shake   shake     5   4   5   Gobo wheel (static)   53   57   20.8%   22.4%   Gobo 3 shake   Gobo 4 shake   Gobo 4 shake   Gobo 4 shake   Gobo 4 shake   Gobo 5 shake   Gobo 5 shake   Gobo 5 shake   Gobo 5 shake   Gobo 5 shake   Gobo 6 shake   Gobo 6 shake   Gobo 6 shake   Gobo 7 shake   Gobo 7 shake   Gobo 7 shake   Gobo 10 shake   Gobo 11 shake   Shake   11 shake   Gobo 11 shake   Shake   11 shake   Shake <td></td> <td></td> <td></td> <td></td> <td>46</td> <td>47</td> <td>18.0%</td> <td>18.4%</td> <td></td> <td></td>					46	47	18.0%	18.4%		
5   4   5   Gobo wheel (static)   53   57   20.8%   22.4%   shake   0(0%)     58   62   22.7%   24.3%   Gobo 3 shake   3   3   3     63   67   24.7%   26.3%   Gobo 4 shake   3   63   67   24.7%   26.3%   Gobo 4 shake   63     73   77   28.6%   30.2%   Gobo 6 shake   63   5   5     78   82   30.6%   32.2%   Gobo 8 shake   63   63   61   63   63   61   63   63   61   63   61   63<					48	52	18.8%	20.4%		
1   1	5	4	5	Gobo wheel (static)	53	57	20.8%	22.4%		0(0%)
1   1					58	62	22.7%	24.3%		
68   72   28.7%   28.2%   shake     73   77   28.6%   30.2%   Gobo   6     78   82   30.6%   32.2%   Gobo   7     83   87   32.5%   34.1%   Gobo   8     84   92   34.5%   36.1%   Gobo   9     93   97   36.5%   38.0%   Gobo   10     shake   103   107   40.4%   42.0%   Gobo   12     108   112   42.4%   43.9%   Gobo   13					63	67	24.7%	26.3%		
73   77   28.0%   30.2%   shake     78   82   30.6%   32.2%   Gobo   7     83   87   32.5%   34.1%   Gobo   8     88   92   34.5%   36.1%   Gobo   9     93   97   36.5%   38.0%   Gobo   10     98   102   38.4%   40.0%   Gobo   11     103   107   40.4%   42.0%   Gobo   12     shake   11   108   112   42.4%   43.9%   Gobo   13					68	72	26.7%	28.2%		
788230.6%32.2%Gobo Shake7838732.5%34.1%Gobo Shake89234.5%36.1%Gobo Shake9939736.5%38.0%Gobo Shake109810238.4%40.0%Gobo Shake1110310740.4%42.0%Gobo Shake1210811242.4%43.9%Gobo Shake13					73	77	28.6%	30.2%		
838732.5%34.1%Gobo 8 shake889234.5%36.1%Gobo 9 shake939736.5%38.0%Gobo 10 shake9810238.4%40.0%Gobo 11 shake10310740.4%42.0%Gobo 12 shake10811242.4%Gobo 13 shake					78	82	30.6%	32.2%	Gobo 7	
889234.5%36.1%Gobo 9 shake939736.5%38.0%Gobo 10 shake9810238.4%40.0%Gobo 11 shake10310740.4%42.0%Gobo 12 shake10811242.4%43.9%Gobo 13 shake					83	87	32.5%	34.1%	Gobo 8	
93   97   36.5%   38.0%   Gobo 10 shake     98   102   38.4%   40.0%   Gobo 11 shake     103   107   40.4%   42.0%   Gobo 12 shake     108   112   42.4%   43.9%   Gobo 13 shake					88	92	34.5%	36.1%	Gobo 9	
98   102   38.4%   40.0%   Gobo 11 shake     103   107   40.4%   42.0%   Gobo 12 shake     108   112   42.4%   43.9%   Gobo 13 shake					93	97	36.5%	38.0%	Gobo 10	
103 107 40.4% 42.0% Gobo 12 shake   108 112 42.4% 43.9% Gobo 13 shake					98	102	38.4%	40.0%	Gobo 11	
108 112 42.4% 43.9% Gobo 13 shake					103	107	40.4%	42.0%	Gobo 12	
Slicke					108	112	42.4%	43.9%	Gobo 13	
113 117 44.3% 45.9% Gobo 14 shake									Gobo 14	

TD-371 BEAM User Manual

				118	122	46.3%	47.8%	Gobo 15 shake	
				123	127	48.2%	49.8%	Open gobo	
				128	187	50.2%	73.3%	Gobo wheel continous rotation CW from slow to fast	
				188	195	73.7%	76.5%	Stop	
				196	255	76.9%	100.0%	Gobo wheel continous rotation CCW from slow to fast	
				0	7	0.0%	2.7%	Open gobo	
				8	12	3.1%	4.7%	Gobo 1	
				13	17	5.1%	6.7%	Gobo 2	
				18	22	7.1%	8.6%	Gobo 3	
				23	27	9.0%	10.6%	Gobo 4	
				28	32	11.0%	12.5%	Gobo 5	
				33	37	12.9%	14.5%	Gobo 6	
				38	42	14.9%	16.5%	Gobo 7	
				43	47	16.9%	18.4%	Gobo 8	
				48	52	18.8%	20.4%	Gobo 9	
				53	57	20.8%	22.4%	Gobo 10	
				58	62	22.7%	24.3%	Gobo 11	
				63	67	24.7%	26.3%	Gobo 12	
				68	72	26.7%	28.2%	Gobo 1 shake	
6	5	6	Rotating gol wheel	73	77	28.6%	30.2%	Gobo 2 shake	0(0%)
				78	82	30.6%	32.2%	Gobo 3 shake	
				83	87	32.5%	34.1%	Gobo 4 shake	
				88	92	34.5%	36.1%	Gobo 5 shake	
				93	97	36.5%	38.0%	Gobo 6 shake	
				98	102	38.4%	40.0%	Gobo 7 shake	
				103	107	40.4%	42.0%	Gobo 8 shake	
				108	112	42.4%	43.9%	Gobo 9 shake	
				113	117	44.3%	45.9%	Gobo 10 shake	
				118	122	46.3%	47.8%	Gobo 11 shake	

TD-371 BEAM User Manual

	1	1		1	1				
				123	127	48.2%	49.8%	Gobo 12 shake	
				128	187	50.2%	73.3%	Gobo wheel continous rotation CW from slow to	
								fast	
				188	195	73.7%	76.5%	Stop	
				196	255	76.9%	100.0%	Gobo wheel continous rotation CCW from slow to fast	
				0	127	0.0%	49.8%	Gobo rotation positioning	
_		7	Gobo	128	187	50.2%	73.3%	Gobo continous rotation CW from slow to fast	0(0%)
7	6	8	rotating/positioning gobo wheel 1	196	255	76.9%	100.0%	Gobo continous rotation CCW from slow to fast	
				188	195	73.7%	76.5%	Stop	
_		9	Focus	0	255	0.0%	100.0%	Near $\rightarrow$ Far	
8	7	10							0(0%)
				0	31	0.0%	12.2%	Off	
				32	63	12.5%	24.7%	Prism 1	
9	8	11	Prism plate1	64	95	25.1%	37.3%	Prism 2	0(0%)
				96	255	37.6%	100.0%	Prism 3	
				0	127	0.0%	49.8%	Prism indexed	
10	9	12	Prism plate 1 rotation	128	187	50.2%	73.3%	Prism continous rotation CW from slow to fast	0(0%)
				188	195	73.7%	76.5%	Stop	
				196	255	76.9%	100.0%	Prism continous rotation CCW from slow to fast	
				0	31	0.0%	12.2%	Off	
11	10	13	Prism plate 2	32	63	12.5%	24.7%	Prism 1	0(0%)
			64	95	25.1%	37.3%	Prism 2		
				96	255	37.6%	100.0%	Prism 3	
12	11	14	Prism plate2	0	127	0.0%	49.8%	Prism	0(0%)

1			rotation	1	1			indexed	
					187			Prism	
				128	107	50.2%	73.3%	continous rotation CW from slow to	
								fast	
				188	195	73.7%	76.5%	Stop	
				196	255	76.9%	100.0%	Prism continous rotation CCW from slow to fast	
13	12	15	Frost	0	31	0.0%	12.2%	Off	0(0%)
15	12	15	11030	32	255	12.5%	100.0%	On	0(070)
14		16		0	255	0.0%	100.0%	Pan	2(22()
15	13	17	Pan	0	65535	0.0%	100.0%	Pan, fine (LSB)	0(0%)
16		18		0	255	0.0%	100.0%	Tilt	
17	14	19	Tilt	0	65535	0.0%	100.0%	Tilt, fine (LSB)	46(18.0%)
				0	9	0.0%	3.5%	No function	
				10	19	3.9%	7.5%	Open light after 5 seconds	
				20	29	7.8%	11.4%	Close light after 5 seconds	
				30	39	11.8%	15.3%	Color wheel half color switch	
				40	49	15.7%	19.2%	Color wheel random positioning	
				50	59	19.6%	23.1%	Reserved	
18	15	20	Special controls	60	69	23.5%	27.1%	Reset all motor after 5 seconds	0(0%)
				70	79	27.5%	31.0%	Scan motor reset after 5 seconds	
				80	89	31.4%	34.9%	All color motor reset after 5 seconds	
			90	99	35.3%	38.8%	All gobo motor reset after 5 seconds		
			100	109	39.2%	42.7%	All strobe motor reset after 5 seconds		
				110	119	43.1%	46.7%	Other motor reset after 5	

						seconds	
		120	129	47.1%	50.6%	Built-in program 1	
		130	139	51.0%	54.5%	Built-in program 2	
		140	149	54.9%	58.4%	Built-in program 3	
		150	159	58.8%	62.4%	Built-in program 4	
		160	169	62.7%	66.3%	Built-in program 5	
		170	179	66.7%	70.2%	Built-in program 6	
		180	189	70.6%	74.1%	Built-in program 7	
		190	199	74.5%	78.0%	Built-in program 8	
		200	209	78.4%	82.0%	Built-in program 9	
		210	219	82.4%	85.9%	Built-in program 10	
		220	255	86.3%	100.0%	Reserved	

# ⚠Notes

Do not switch off the fixture within the first minute after switching on. Wait for at least 5 minutes to switch on the fixture.

### **Technical specification**

#### Optical

- Light source: OSRAM TI\_SIRIUS HRI 371W S
- Expected average lifetime: 1500 hours
- Color temperature: 7000K linear adjustment
- Beam angle: 0°-2.5°
- Focus: DMX512 adjustment
- Prism: 2 independent prism wheels, CW/CCW rotation; 6 different prisms which can generate strange multi-light effects
- Frost: 1 independent frost effect
- Ballast: Electronic

#### Photometric

• Total Output (Lumen): 14029 lumens

#### Gobo

- Rotating gobo: 12 interchangeable gobos + open, indexing, CW/CCW rotation, variable speed
- Static gobo wheel: 15 gobos + open, CW/CCW rotation, variable speed
- Gobo outside diameter: 11.9mm
- Max. Image diameter: 6mm
- Max. Thickness: 0.5mm(Metal)
- Glass/Metal gobo: Metal

#### Color

Color wheel: 14 colors + open, split color, CW/CCW rotation, variable speed

#### Electrical

- Power input, nominal: AC 200-240V 50/60Hz
- Max. Power consumption: 523W, max current: 5.1A, PF: 0.998
- Power supply unit: Auto-ranging electronic SMPS
- Main fuse: 250V/6.3A

#### **Control and programming**

- Control channels (DMX): 18/15/20
- Protocol: DMX-512
- Display: Graphic LCD backlit

#### **Physical / Installation**

- Weight: 24kg (53 lbs.)
- IP rating: IP20
- Material: Aluminum, steel, plastic

- Mounting points: Four quarter-turn locking points + attachment points for safety wire
- Minimum distance to combustible materials: 1.64ft. (0.5m)
- Minimum distance to illuminated surfaces: 49.21ft. (15m)

#### **Dynamic effects**

- Pan/Tilt movement: 540°/270°
- Strobe: 1-25Hz, synchronized, pulse effects
- Dimmer: 0-100%, 16-bit, mechanical dimming

#### Thermal

- Operating range: 5°F to 113°F (-15°C to +45°C)
- Startup range: -2°F to 113°F (-25°C to +45°C)
- Storage range: -40°F to 140°F (-40°C to +60°C)
- Cooling: Active fan
- Humidity: ≤85%

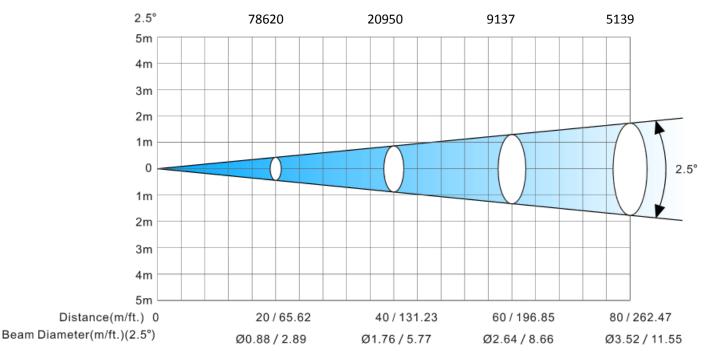
#### Connections

- AC power: Neutrik powerCon
- DMX data input/output: Chassis 5-pin Neutrik XLR (in/out)

### **Certification and Safety**

- EMC: EN 55103-1:2009, EN 55103-2:2009, EN 61000-3-2:2006+A2:2009, EN 61000-3-3:2013
- Safety: EN 60598-2-17:1989/A2:1991

#### Photometric



### Illuminance(LUX)

#### **Other features**

- Eco-friendly design: equipped with intelligent tracking system to decrease the power of lamp source.
- Power setting: built-in continuous rechargeable battery, allowing setting functional data via LCD interface without power connection
- Sleep mode: uses the most advanced technology to remotely activate sleep mode. When the lamp is disconnected from signal, the sleep mode is enabled automatically to make it more stable and safer. Sleep time can be customized.
- Communication design: DMX wired or wireless signal transmission, RDM bi-directional control technology, can be upgraded by DMX remote software.
- Cooling system: using wind direction and temperature monitoring technology to effectively keep the temperature of the unit in control. Through monitoring the temperatures in different parts of the unit, it adjusts all the cooling assemblies based on the fixture status when it starts, operates, switch off shutter or light bulb etc.

### **Cleaning and maintenance**

It is required that the fixture should be kept clean and well maintained to ensure its reliability. Its lifespan mainly depends on the working environment and proper operation. Should you have any questions, please consult a technical engineer of GTD Lighting.

### ANotes

Damage resulted from dust, smoke, oil or improper use is not covered by warranty.

### AWrning

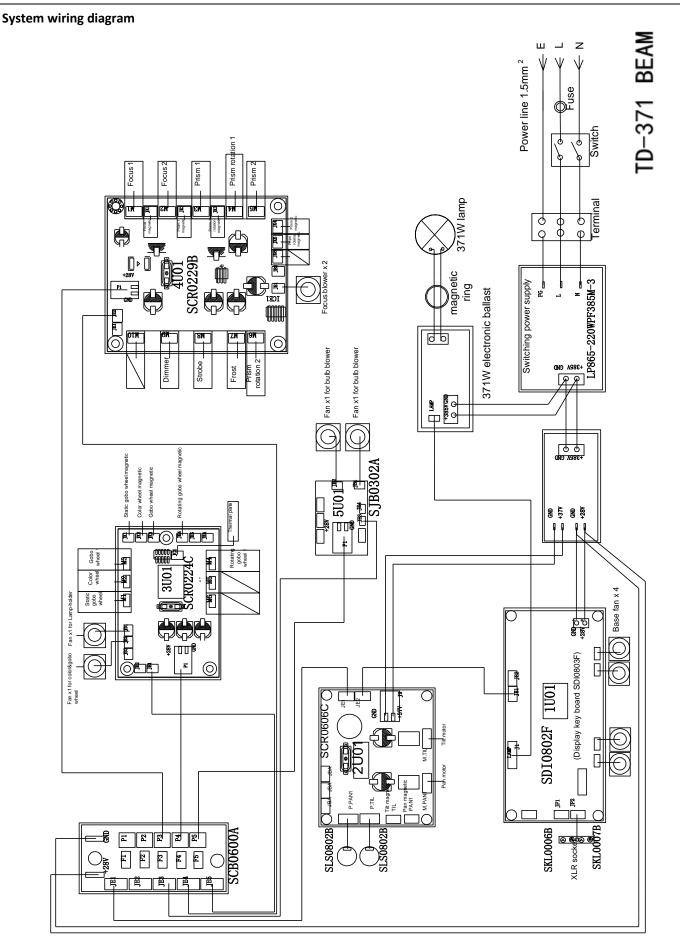
Disconnect the fixture from AC power, and let it cool down for at least 15 minutes before opening the housing. Make sure to use a soft cloth to clean the optical components, and be careful, as the coating is easily scratched. Do not use any organic solvent such as alcohol to clean the reflector mirror, dichroic color filters or housing of the fixture.

- If the lens is cracked or otherwise damaged, replace it immediately.
- If the lamp becomes damaged or deformed in any way it must be replaced.
- If the light from the lamp appears dim, this normally indicates that it is reaching the end of its life span and should be changed at once. Aged lamps run to the extremity of their life might explode.
- If fixture does not function, check the fuse on the power socket of the fixture. Replace the fuse of the same specification if it is blown.
- The fixture is equipped with thermal-protection device that will switch off the lamp in case of overheating. If this happens, please check that the fans are not blocked, and clean them if they are dirty. Check whether the fans are operational. If not, call a qualified technician. Troubleshoot and correct the problem before switching on the fixture again. Any maintenance work should only be carried out by qualified technicians.
- To ensure the continuous rotation of the rotating gobos and linear motion of the focus lens, it is recommended that the bearings on the rotating gobos and the 2 shafts for the focus system is lubricated periodically, preferably every 3-6 months. Use only high quality, high-temperature resistant grease. When lubricating the bearings, a syringe with a fine needle is the best way to grease the bearings around each gobo. Be aware not to use too much grease, and stain the parts around.

# Troubleshooting

Problem	Possible Cause	Suggested Correction
No response after connected to A/C power	Power switch not turned on.	Turn on power switch.
	Take out the fuse and check if it is blown.	Locate the blown fuse. Remove the broken fuse. Insert a replacement fuse of the correct amperage.
	Abnormal A/C input (A/C power socket, power cables, luminaire power socket).	Replace AC power socket and power cables, and then adjust power socket for proper connection.
	No DC voltage from switching power supply.	Check if the switching power supply has DC voltage output. Replace the switching power supply.
No response or wrong response to the commands of the control system	DMX cables disconnected from fixture's DATA IN connector.	Connect DMX cable to the fixture's DATA IN connector.
	Open circuit or short circuit fault in the DMX cables.	Replace DMX cables as required.
	Wrong DMX address for the fixture in the control system.	Ensure the address in "Run setting > Address Setting > Address" of the fixture is consistent with the address in the control system.
	Misuse in "Channel setting > Channel Mode" of the fixture.	Choose the channel mode in "Channel setting > Channel Mode" of the fixture as required by the user.
	Malfunctioning of DMX cannon input/output connectors. No input/output voltage to the main control board of the fixture.	Troubleshooting the DMX XLR signal plate of the fixture, replace the main control board of the fixture.
	Normal end of lamp life.	Test the lamp in an adjacent fixture which is known to be operating properly and then replace as necessary.
The lamp does not	Shorted leads between ballast and the lamp.	Replace components as required.
start when switch is turned on	Incorrect ballast output.	Check ballast output to determine if it conforms to lamp requirements. If voltage and current do not stabilize in five to ten minutes warm-up time, ballast output is incorrect and adjustment should be made. Check capacitor wiring, if visibly available, to determine if capacitors are properly wired.
The lamp is off unexpected	The fixture is in sleep mode.	Should the fixture is not in active use for "standby time", the sleep mode is enabled automatically to make it more stable and safer, sleep time can be customized.
	Lamp has been operating: cool down time insufficient.	Environmental conditions such as extreme temperatures will have the fixture stop working, the lamps will require a period of time to cool and re-establish optimum starting conditions. Restart time varies with the degree of ventilation built into it, ambient temperature, and draft conditions.
	Overheat ballast resulting in premature failure or damaged ballast.	The ballast incorporate internal automatic-resetting thermal protection, which deactivates the ballast should it overheat. Normal operation resumes once the ballast has cooled sufficiently. Burned-out or failing lamps, or high temperatures in or around the fixture, can cause the ballast to overheat, so we need solve the problem and replace components as required.
Shaking, wrong position, and out of control gobo wheel	No function the connector between gobo wheel motor and drive, loose, damaged, or broken cables connecting the gobo wheel and drive.	Reconnect the gobo wheel motor to the drive, and replace cables as required.
	The gobo wheel motor's drive IC on the PCB might be out of condition.	Replace the drive having the same software version as required.
	Dislocated magnetic tube and positioning magnet, or damaged magnetic tube.	Calibrate the position of the magnetic tube to the positioning magnet, and replace magnetic tube as required.
	Shaking motor, wrong rotation angle, losing step or damaged motor.	Replace the motor as required.

Problem	Possible Cause	Suggested Correction
Decreased brightness, uneven pattern projections	Normal end of lamp life.	Test the lamp in an adjacent fixture which is known to be operating properly and then replace as necessary.
	The midline of the lamp is not aligned with the center point of the effect assembly (consisting of the rotating gobo wheel, static gobo wheel, color wheel, strobe, prism, and frost), focus module, and object lens.	Reinstall the lamp. Adjust the lamp position until the midline of the lamp is aligned with the center point of the effect assemblies (consisting of the rotating gobo wheel, static gobo wheel, color wheel, strobe, prism, frost, the focus adjusting module, and the object lens).
	Excessive dusts or smudges on the effect assembly, focus module and objective lens.	Follow the instructions stated in this user manual to clean the effect assembly, focus module and objective lens.
	Damaged or deformed effect assembly, focus module or objective lens.	Replace the damaged or deformed components.
Wrong color	Normal end of lamp life.	Test the lamp in an adjacent fixture which is known to be operating properly and then replace as necessary.
	Excessive dusts or smudges on the rotating gobo wheel or color wheel.	Follow the instructions stated in this user manual to clean the rotating gobo wheel or color wheel.
	Rotating gobo wheel, color wheel with coating wearing off, damages or deformation.	Replace the worn-off, damaged or deformed rotating gobo wheel and color wheel.
Non-clear shape	Excessive dusts or smudges on the rotating gobo wheel or color wheel.	Follow the instructions stated in this user manual to clean the rotating gobo wheel or color wheel.
	Excessive dusts or smudges on the focus module or objective lens.	Follow the instructions stated in this user manual to clean the focus module or objective lens.
	Damaged or deformed focus module or objective lens.	Replace the damaged or deformed focus module or objective lens.

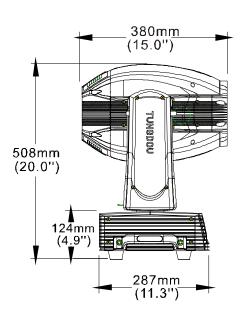


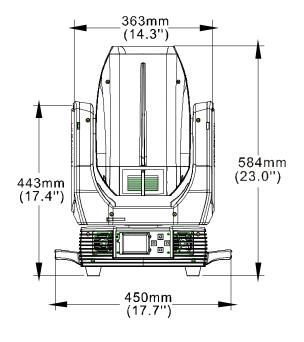
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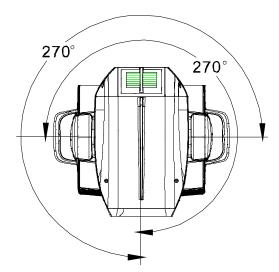
#### Spare parts list

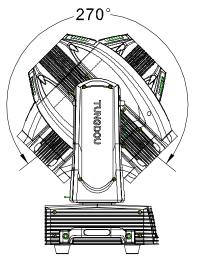
Item	P/N	Qty	Notes
Transfer board 0600B-1	5801063001B	1	SCB0600B 8拼
Scanning board	5809010333A	1	TD-371 BEAM-201010 SCR0606C
Motor drive board 3	5809010334A	1	TD-371 BEAM-301010 SCR0224C
Motor drive board 4	5809010335A	1	TD-371 BEAM-401M10 SCR0229B
Motor drive board 5	5809010336A	1	TD-371 BEAM-501M10 SJB0302A
Display board	5809010332A	1	TD-371 BEAM-101J10
Switching Power Supply	1412050074A	1	ETS650-3853728P AC:200~240V,DC:385V, 37V, 28V
XLR board 7	5802910005B	1	SKL0007B
XLR board 6B-1	5802910008A	1	SKL0006B
Lamp	1306030012A	1	Spec SIRIUS HRI 371W S

# Appendix 1









Notes:

P/N: 1502011092A Time: Aug 08<sup>th</sup>, 2018 27