

**GTB**etter

锦弘灯光 只为更好!

# GTB Lighting

GT-600IP User Manual

Waterproof beam light

CMY



(Please read the instructions carefully before use)

## Check that the unit has not been damaged during transport



Read all cautions and warnings  
prior to operation of this  
equipment

## Protection Against Fire



Fire

1. Maintain a minimum of 1 50cm distance from any type of flame
2. Replace fuse only with the specified type and rating
3. Do not install the unit to close a heat source
4. Make sure cable are properly secured away from unit movement
5. Maximum surface operating temperature 80°

## Protection Against Electrical



Electrical

1. Disconnect power before servicing
2. The unit must be earthed (electronically grounded)

## Protection Against Mechanical Hazards



Mechanical

1. Use safety chain when hanging unit
2. Use quality clamps or bolts when positioning unit
3. Do not open unit while it is on, risk of electrical shock

## Technical Information

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Adopt new special materials, anti-ultraviolet, anti-corrosion, high temperature resistant

Light source: USHIO 420 /OSRAM421 new integrated long-life light source

Adopt heat dissipation black technology heat dissipation technology, better heat dissipation, longer light source life, more stable quality

Light source life: 4000H

Optical system: high-precision optical lens, light output angle: 1.8°

186MM ultra-large light output diameter, full and sharp light output

Color temperature: 7500K±300K

Color system

1 independent color disk with 14 color patches + white light

Pattern system

1 fixed pattern disk with 15 patterns + white light

CMY color mixing system: can mix and match colors, C (cyan) + M (magenta) + Y (yellow) to create unlimited color changes

Effect configuration

Dimming: 0~100% linear dimming

Soft light: 1 independent atomizer, 0~100% soft light effect

Strobe: fast strobe, multiple strobe mode selection, pulsation, asynchronous, synchronous, random slow, medium and fast

Prism: 1 rotating octagonal prism + 1 rotating tower prism, can be superimposed, can rotate in both directions

Focus: electronic focus;

Shaking parameters

Horizontal 540° , vertical 270° , 16Bit control

Magnetic encoder positioning system is used for horizontal and vertical positioning

Control and programming

Channel control: 20CH

Communication protocol: DMX512/RDM protocol

Menu display: 1.8-inch LCD display; Chinese and English languages can be switched at will, the font can be reversed 180° display; touch button operation mode, quick return key

Power supply

Input voltage: 100-240V~ 50/60Hz

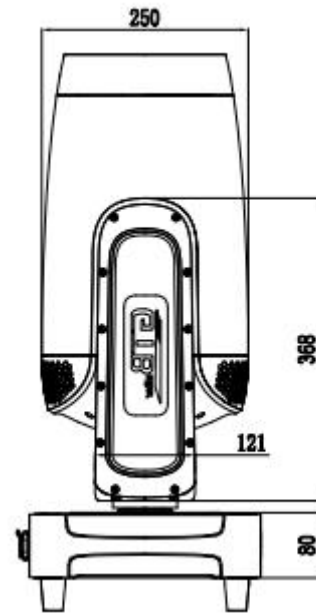
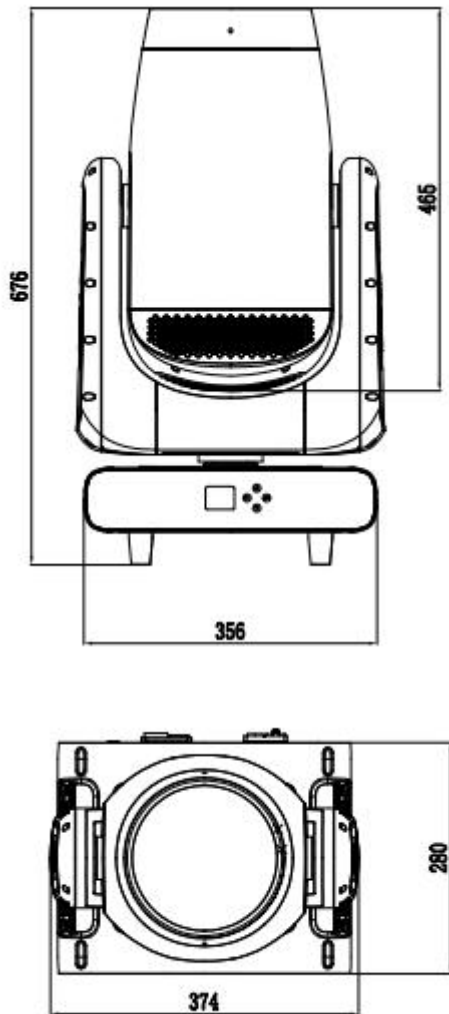
Input power: 600W

Power factor: PF≥0.98

Protection level IP66

Weight: 25kg

**Dimension (mm):**



**Main Power Connection**

**Caution!**

1. Do not connect fixture to a dimmer system.
2. This unit has Auto switching power supply. It will respond to 110V or 220V automatically
3. This unit must be earthed. (Electronically grounded)
4. Replace fuse only with the specified type and rating.

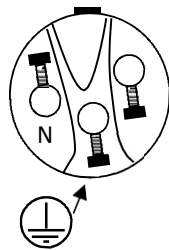
The occupation of the connection-cable is as follows:

This fixture is equipped with an electronic power supply that will let the unit operate from 90V to 240V from 50Hz to 60Hz

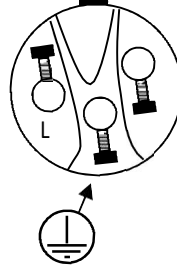
Cable (USA)	Cable (EU)	Pin	110V	220V
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Black	Brown	Live	L	L
White	Light Blue	Neutral	N	L
Green	Yellow/Green	Ground		

110V  
Connection



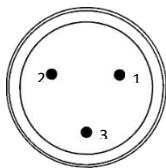
220V  
Connection



### DMX-512 Connection

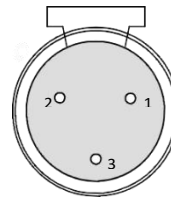
The fixture is equipped with 3 pin XLR Sockets for DMX input and output. The sockets are wired in parallel. Only use a shielded twisted pair cable designed for RS-485 and 3 pin XLR plugs and connectors in order to connect the controller with the fixture or the fixture with another.

DMX—input



1. Shield
2. Signal (-)
3. Signal (+)

DMX—output



### Menu Control

DMX Addr	001-512	
Channel Mode	20	
Reset		
Run	DMX/Auto/User	
	Auto	
	User	
Lamp	ON	
	Off	
Manual	Strobe:000	
	Dim:000	
	Color:000	
	Half Color:000	
	Gobo:000	
	Prism 1:000	
	Prism Rot:000	
	Prism 2:000	
	Prism Super:000	
	Colorful:000	
	Pan:000	
	Tilt:000	
	P/T Speed:000	
M/S Mode : Slave	Pan/Tilt Settings	Manual Pan/Tilt:No
		X Reverse:N
		Y Reverse:N
		Speed Chn RT:Yes

Run Settings	If no DMX	Power On	No Effect
			User
		Run Time	Middle
			Auto
			Shutter Off
Advanced Settings	Auto Ignition	No	Keep
	Adj		
	Language	English/Chinese	
	Ignore Err		
	Factory Setting		
	Adj Recover		
Info	DMX Value		
	Error		
	Lamp		
	Test Mode	Fan Test	Fan1
			Fan2
			Fan3
		Fan4	
	Pan/Tilt Speed	0	
	Product Code		

## DMX

### Profile

#### 20Channel Table:

The order of the channels of this lighting fixture can be viewed in scene mode. The channel mode is set in the "Address Setting" page. The specific detailed data is shown in the following table:

Channel Mode	Value	Describe
20		
1		Strobe/Shutter
	0-3	Off
	4-103	Strobe from slow to fast
	104-107	On
	108-157	Fast on and slow off, from slow to fast
	158-207	Fast off and slow on, from fast to slow
	208-212	On
	213-251	Random strobe, from slow to fast
	252-255	On

<b>2</b>		Dimming
	0-255	from 0% to 100%
<b>3</b>		<b>Dimming fine-tuning</b>
	0-255	from 0% to 100%
<b>4</b>		
	0-255	C
		From shallow to deep
<b>5</b>		
	0-255	M
		From shallow to deep
<b>6</b>		
	0-255	Y
		From shallow to deep
<b>7</b>		Color wheel
	0-127	Full color/half color (can also be set to continuous positioning through the menu)
	128-190	Rainbow effect from fast to slow
	191-192	Rainbow effect stop
	193-255	Rainbow effect from slow to fast
<b>8</b>		Half Color
	0-63	NO
	64-255	Half Color
<b>9</b>		Pattern
	0-15	Open
	16-47	Select pattern
	48-127	Select pattern and shake, from slow to fast
	128-187	Roll pattern forward, from fast to slow
	188-195	Stop rolling
	196-255	Roll pattern reverse, from slow to fast
<b>10</b>		Prism 1
	0-63	No prism
	64-255	Prism 1 inserted
<b>11</b>		Prism 1,2 rotation
	0-127	0-400 degrees
	128-187	Reverse flow from fast to slow
	188-195	Stop

	196-255	Forward flow from slow to fast
<b>12</b>		Prism 2
	0-63	No Prism
	64-255	Prism 2 Insert
<b>13</b>		Atomization
	0-127	No atomization
	128-255	Atomization
<b>14</b>		Focus
	0-255	Focus from far to near
<b>15</b>		Pan
	0-255	Pan rotation
<b>16</b>		Pan fine adjustment
	0-255	Pan fine adjustment
<b>17</b>		Tilt
	0-255	Tilt rotation
<b>18</b>		Tilt fine adjustment
	0-255	Tilt fine adjustment
<b>19</b>		Pan/Tilt speed
	0	Maximum speed
		Speed mode
	1-255	Speed from fast to slow
		In time mode
	1-255	Time from 0.1s to 25.5s
<b>20</b>		Function channel
		To achieve the following effects, push the DMX value to the corresponding position and keep it still for at least 4 seconds
	0-99	Empty
	100-105	Turn off the light
	106-199	Empty
	200-205	Turn on the light
	206-209	Empty
	210-215	Pan/Tilt reset
	216-219	Empty
	220-235	Effect reset
	236-239	Empty

	240-255	Reset all
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## **Cleaning!**

Due to fog residue, smoke, and dust cleaning the internal and external optical lenses must be carried out periodically to optimize light output.

1. Use normal glass cleaner and a soft cloth to wipe off the outside casing.
2. Clean the external optics with glass cleaner and a soft cloth every 20 days.
3. Always be sure to dry all parts completely before plugging the unit back in.

Cleaning frequency depends on the environment in which the unit operates (i.e. smoke, fog residue, dust, dew).

## **Unit not responding to DMX:**

Check that the DMX cables are connected properly and are wired correctly (pin 3 is “hot”; on some other DMX devices pin 5 may be “hot”). Also, check that all cables are connected to the right connectors; it does matter which way the inputs and outputs are connected.