

GTBBetter

锦弘灯光 只为更好!

GTB Lighting

GT-650IP User Manual

Waterproof beam light



(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

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

Light source: USHIO 450 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

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

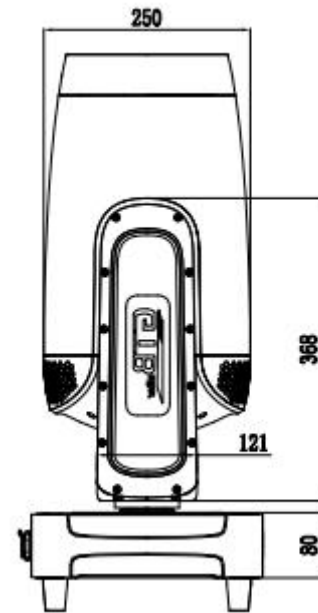
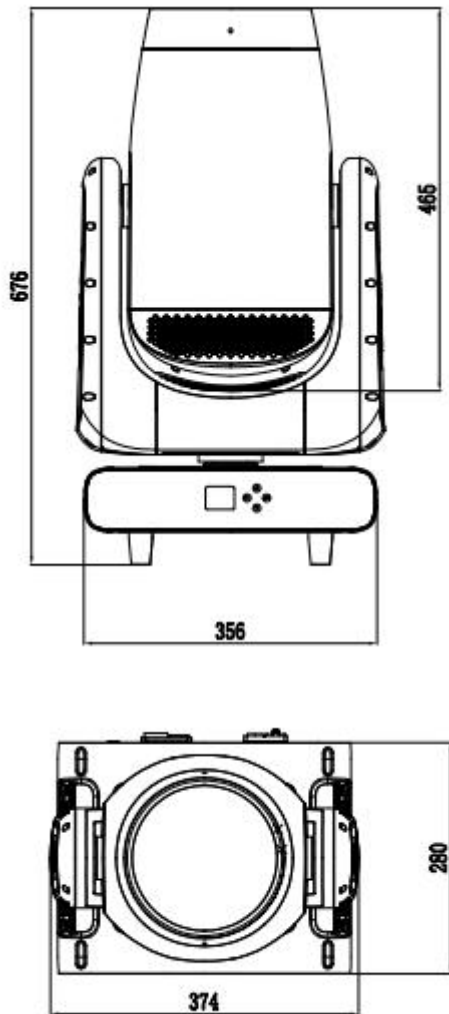
Input power: 650W

Power factor: PF≥0.98

Protection level IP66

Weight: 23kg

Dimension (mm):





Main Power Connection

Caution!

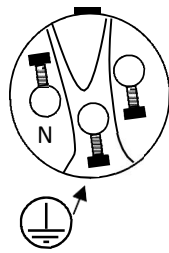
1. Do not connect fixture to a dimmer system.
2. This unit has Auto switching power supply. It will respond to 110V or 220V automatically
3. This unit must be earthed. (Electronically grounded)
4. Replace fuse only with the specified type and rating.

The occupation of the connection-cable is as follows:

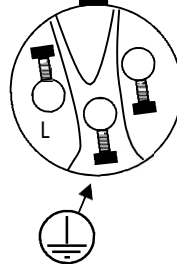
This fixture is equipped with an electronic power supply that will let the unit operate from 90V to 240V from 50Hz 60Hz

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

110V
Connection



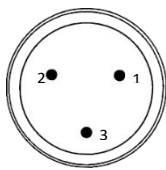
220V
Connection



DMX-512 Connection

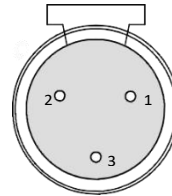
The fixture is equipped with 3 pin XLR Sockets for DMX input and output. The sockets are wired in parallel. Only use a shielded twisted pair cable designed for RS-485 and 3 pin XLR plugs and connectors in order to connect the controller with the fixture or the fixture with another.

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 | | | |
| Run Settings | Pan/Tilt Settings | Manual Pan/Tilt:No | | |
| | | X Reverse:N | | |
| | | Y Reverse:N | | |
| | | Speed Chn RT:Yes | | |
| | If no DMX | Power On | No Effect | |
| | | | User | |
| | Auto Ignition | Run Time | Middle | |
| | | | Auto | |
| | Advanced Settings | No | Shutter Off | |
| | | | Keep | |
| Advanced Settings | 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 |
| | | |
| 2 | | Dimming |
| | 0-255 | from 0% to 100% |
| | | |
| 3 | | Dimming fine-tuning |
| | 0-255 | from 0% to 100% |
| | | |
| 4 | | |
| | 0-255 | NO |
| | | |
| 5 | | |
| | 0-255 | NO |
| | | |
| 6 | | |
| | 0-255 | NO |
| | | |
| 7 | | 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 |
| | | |
| 8 | | Half Color |

| | | |
|-----------|---------|---------------------------------------------|
| | 0-63 | NO |
| | 64-255 | Half Color |
| | | |
| 9 | | 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 |
| | | |
| 10 | | Prism 1 |
| | 0-63 | No prism |
| | 64-255 | Prism 1 inserted |
| | | |
| 11 | | 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 |
| | | |
| 12 | | Prism 2 |
| | 0-63 | No Prism |
| | 64-255 | Prism 2 Insert |
| | | |
| 13 | | Atomization |
| | 0-127 | No atomization |
| | 128-255 | Atomization |
| | | |
| 14 | | Focus |
| | 0-255 | Focus from far to near |
| | | |
| 15 | | Pan |
| | 0-255 | Pan rotation |
| 16 | | Pan fine adjustment |
| | 0-255 | Pan fine adjustment |
| 17 | | Tilt |
| | 0-255 | Tilt rotation |
| 18 | | Tilt fine adjustment |
| | 0-255 | Tilt fine adjustment |
| 19 | | 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 |
| 20 | | 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 |

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.