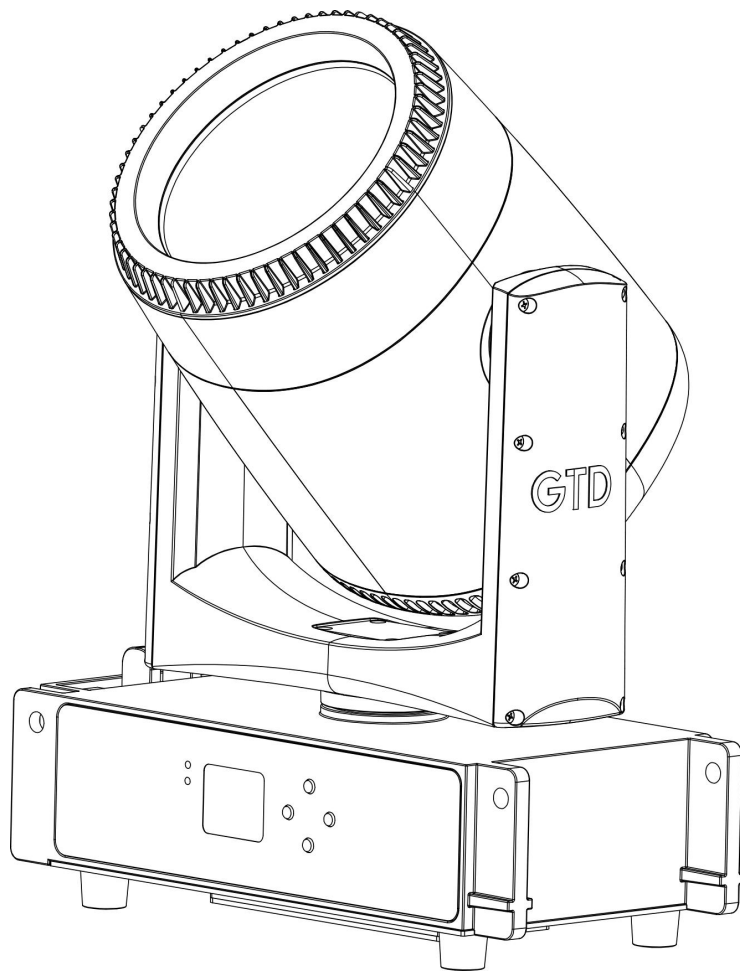


GTD

GTD-FX100



User Manual

GTD all rights reserved. Information, specifications, diagrams, images, and instructions herein are subject to change without notice. GTD logo and identifying product names and numbers herein are trademarks of GTD. Copyright protection claimed includes all forms and matters of copyrightable materials and information now allowed by statutory or judicial law or hereinafter granted. Product names used in this document may be trademarks or registered trademarks of their respective companies and are hereby acknowledged. All non-GTD brands and product names are trademarks or registered trademarks of their respective companies.

GTD and all affiliated companies hereby disclaim any and all liabilities for property, equipment, building, and electrical damages, injuries to any persons, and direct or indirect economic loss associated with the use or reliance of any information contained within this document, and/or as a result of the improper, unsafe, insufficient and negligent assembly, installation, rigging, and operation of this product.

Contents

1. Safety instructions	3
2. Product introductions.....	5
2.1 Dimensions	5
2.2 Fixture overview	6
2.3 Accessories	6
3. Packing	7
3.1 Unpacking	7
3.2 Packing after use	7
4. Installation	7
4.1 Clamps installation	7
4.2 Device installation	7
5. Power / Control connection	8
5.1 Power connection	8
5.2 Control connection	8
5.3 Testing	9
6. Control panel	9
6.1 Panel instruction	9
7. Technical specification	10
8. Gobos and colors.....	12
8.1 Gobos	12
8.2 Colors	12
9. Menu structure	13
10. DMX protocol.....	15
11. Maintenance and Troubleshooting	21
11.1 Cleaning and maintenance	21
11.2 Troubleshooting	21

1. Safety instructions

Before using the fixture, read the latest version of the product user manual, paying particular attention to the safety instructions. Please check www.hongyanggtd.com 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!

Wear protective eyewear. Never look directly into the light source.



WARNING!

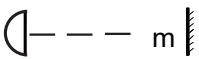
Burn hazard. Hot surface. Do not touch.



Only to direct mounting on non-combustible surfaces.



Replace all cracked glass shields.



Minimum distance to lighted objects.

$t_a \dots ^\circ\text{C}$

Maximum ambient temperature.

$t_c \dots ^\circ\text{C}$

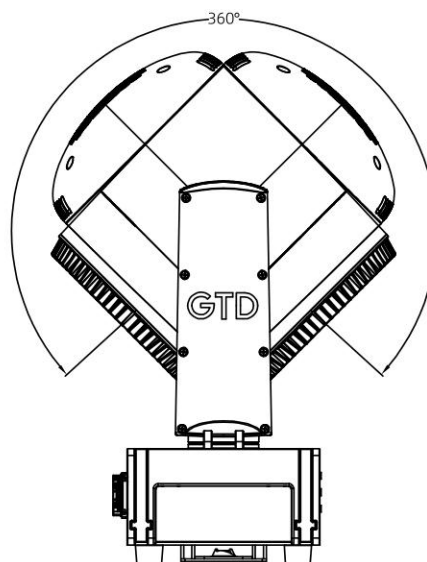
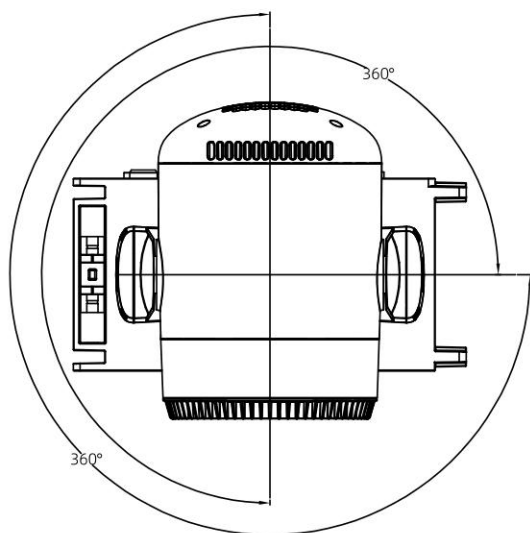
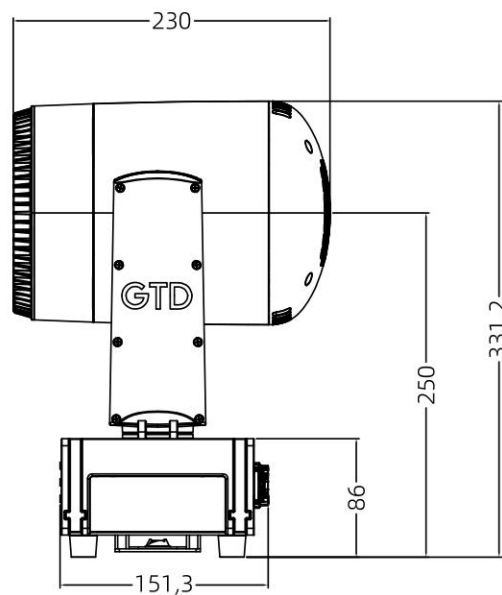
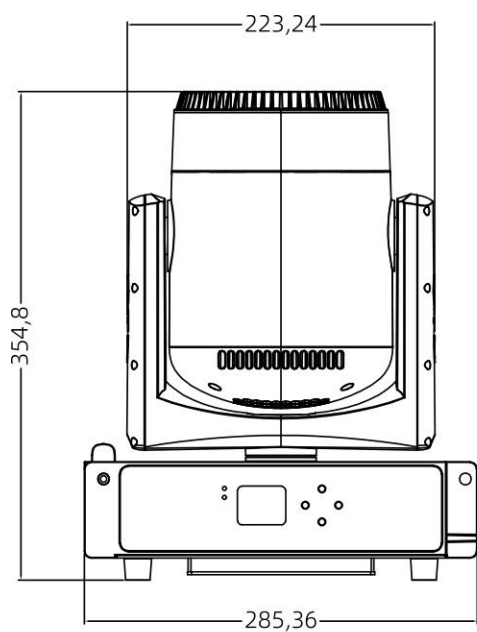
Maximum temp of the external surface.

General guidelines ⚠

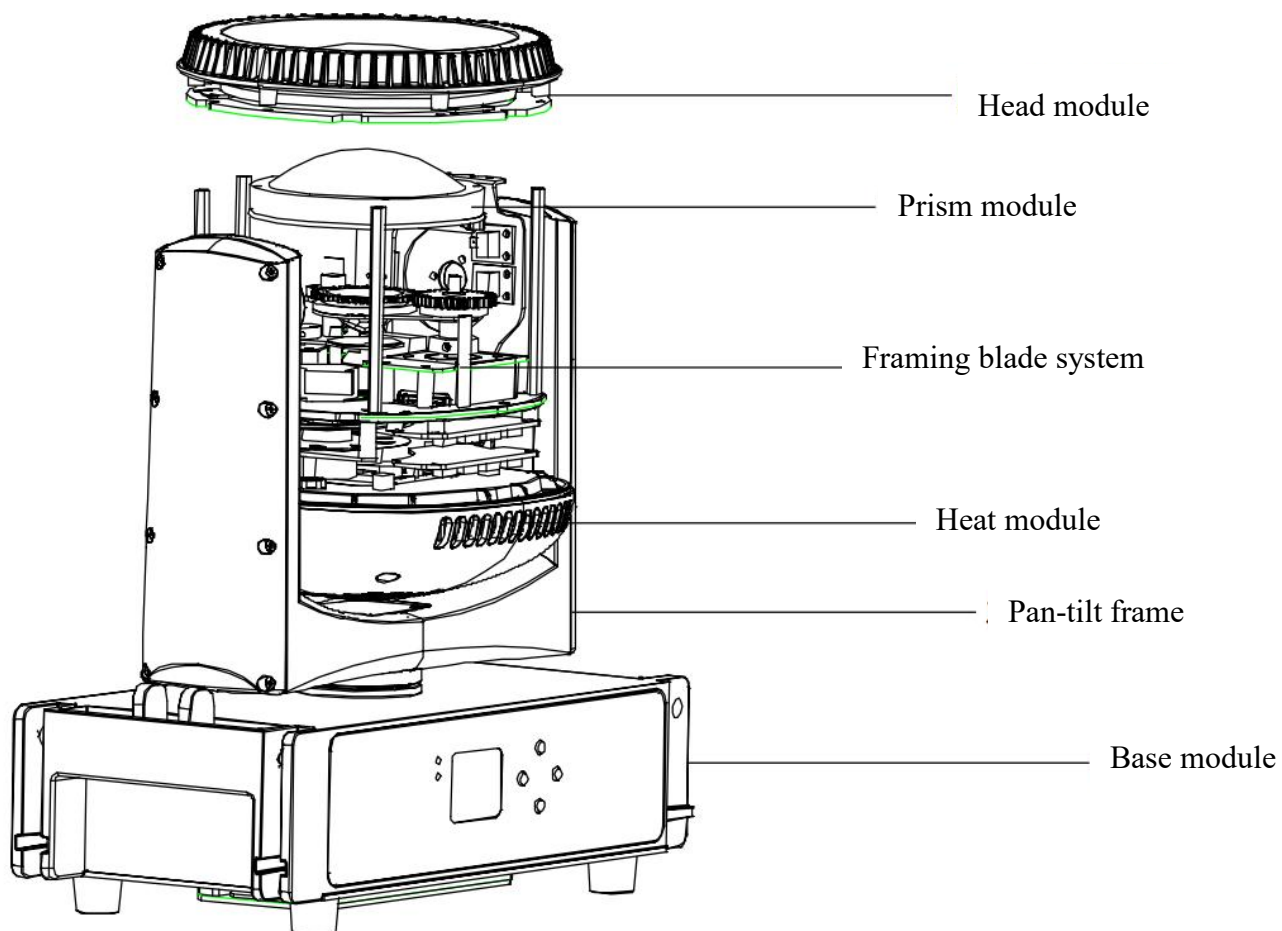
- This product has a protection rating of IP65.
- Never open this fixture while in use.
- The fixture should be kept clean. DO NOT operate the fixture in extreme heat or dusty environments. Avoid contact with chemical liquid.
- Minimum distance to lighted objects must be 1.6 feet (0.5m).
- Maximum temp of the external surface 122°F (50°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.
- Cover, prism or OLED 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.
- Basic insulation should be maintained between the controllable device and the product power supply.
- 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.
- Broken or damaged cables and light source 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 020-82898663.

2. Production instructions

2.1 Dimension



2.2 Fixture overview



2.3 Accessories

Name	QTY	Unit	Note
User manual	1	PC	--
Safety cable	1	PC	--
3-pins signal line	1	PC	--
Power cable	1	PC	--

3. Packing and shipping

3.1 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.

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.

Notes

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

3.2 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. Do not upside down.
4. 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.

4. Installation

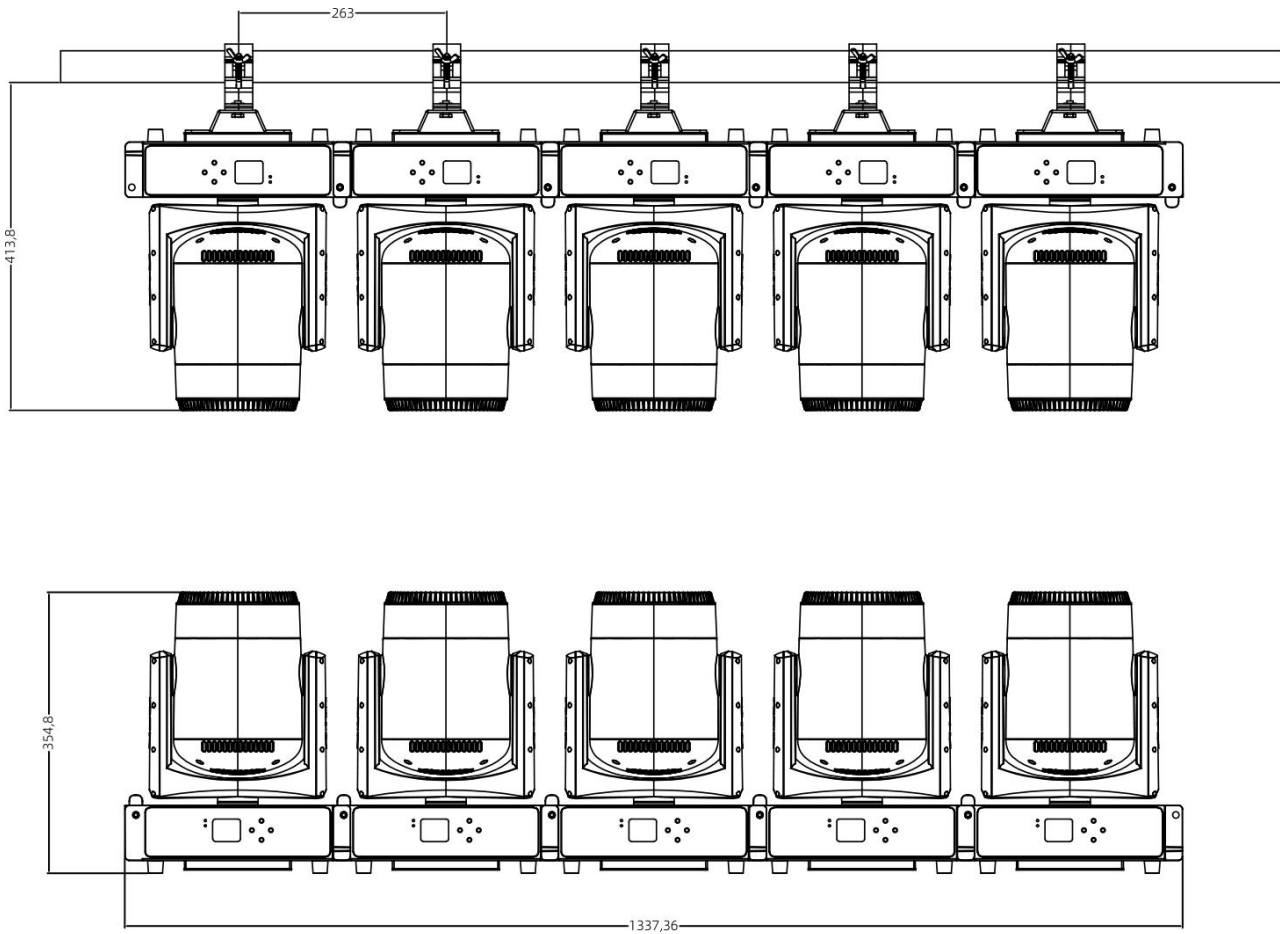
4.1 Clamps installation

1. When placing the lamp on the stage, lay the lamp flat on the stage surface (the ground lock type lamp hook can be equipped with fixed installation).
2. When installing the lamp on a truss in any direction, simply raise the lamp hook upright.
3. Make sure there is no damage on the clamps or safety cables before installation.

4.2 Device installation

1. When installing the truss: (1) Insert the lamp hook into the truss rod and tighten the nut clockwise; (2) Secure the safety rope as shown in the diagram; (3) Unlock the horizontal lock.
2. Check if pan and tilt are unlocked before connecting the unit to AC power.
3. Do not hang the lamp sideways.

Note: Ensure the installation distance between multiple lamps.



5. Power/ Control connection

5.1 Power connection

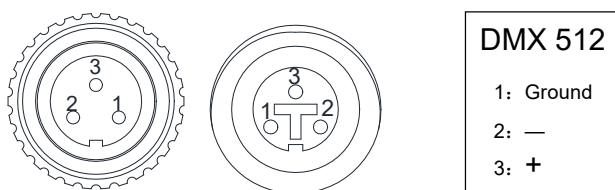
Connection method:

- 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.

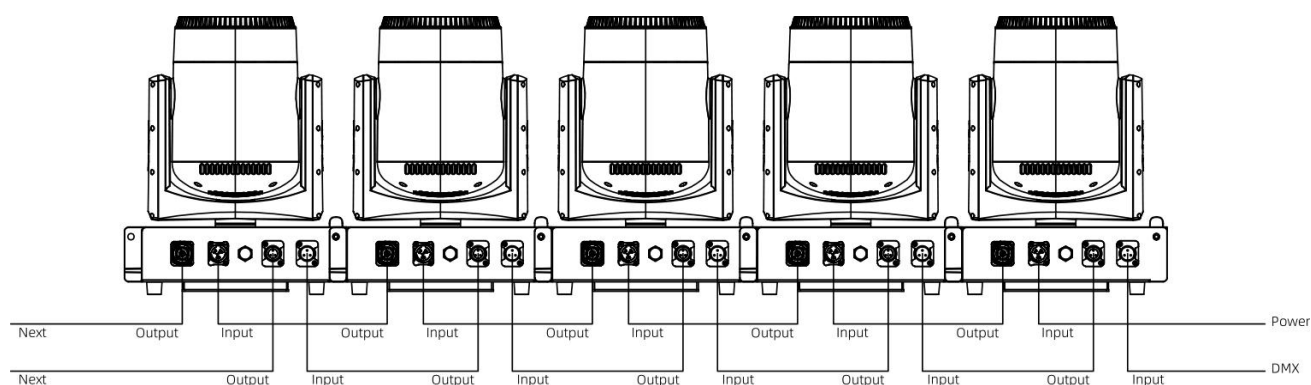
5.2 Control connection

The fixture has 3-pin XLR connectors for DMX data input and output as shown below. Connection between the

console and fixture, and between fixtures must be made with 2 core screened DMX signal cable. Maximum connecting distance of signal cable is 150 meters. Additional DMX512 signal-amplifier is recommended for longer distance .



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 3-pin XLR connector with a 1/4W and 120Ω resistor between the pin 2 and pin 3) as shown below:

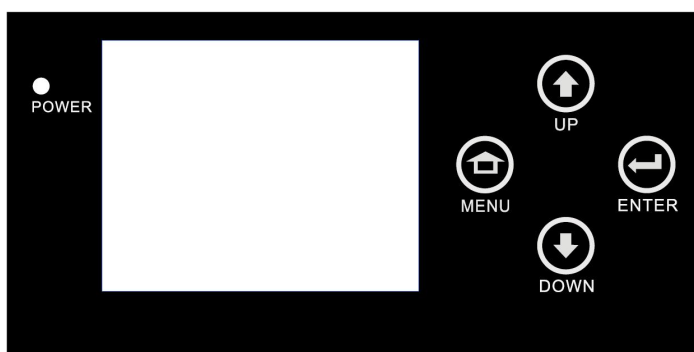


5.3 Testing

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

6. Control panel

6.1 Panel instruction



- 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 submenu. 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 ENTER to return to the previous menu or exit.

7. Technical specification

- **Optical**

Light source: LED 100W

RGB 0.3W, quantity: 60pcs

Expected average lifetime: 20000 h

Color temperature correction: 8500K

Beam angle: 2°

Beam Aperture: 120MM

- **Gobo**

Fixed gobo wheel: 8 gobos + open

Effect wheel: CW/CCW rotation, variable speed

- **Color**

Color wheel: 8 colors + open, split color, CW/CCW rotation, “Rainbow effect” in both directions

- **Electrical**

Power input, nominal: 100-240V~ 50/60Hz

Max. Power consumption: 150W

Power input: Power socket (input/output)

DMX data input/output: Chassis 3-pin XLR waterproof socket

- **Control and programming**

Control channels (DMX): 19/22

Protocol: DMX-512 RDM

Display: LCD

- **Physical / Installation**

Weight: 7.5Kg

IP rating: IP65

Modular Splicing Design: Interconnectable lamp base structure allows unlimited expansion.

- **Dynamic effects**

Pan/Tilt movement: 540°/270°(16-bit scanning)

X-axis/Y-axis rotation Angle: Stepless rotation

Automatic correction of X-axis/Y-axis positions

Strobe: 1-25Hz, synchronized, pulse effects

Iris: Motorized adjustable iris, wide range of variable pulse effects

Dimmer: 0-100%, mechanical dimming

Prism: 1 single-faceted prism, CW/CCW rotation with variable speed

Effect System: 60 RGB (tri-chip) LEDs arranged in a circular array, with multiple built-in macro programs

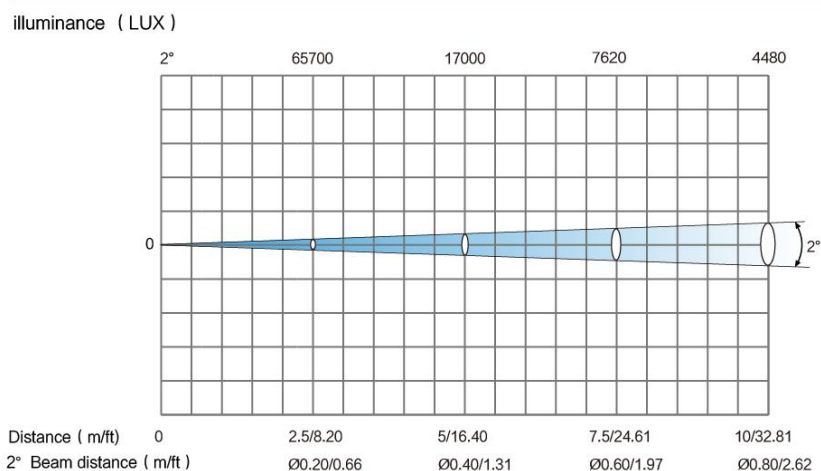
- **Certification and Safety**

EMC: EN 55103-1:2009, EN 55103-2:2009, EN 61000-3-2:2006+A2:2009, EN 61000-3-3:2013,
GB/T 17743-2007, GB 17625.1-2012

Safety: EN 60598-2-17:1989/A2:1991, GB/T 7000.1-2023, GB/T 7000.217-2023

- **Photometric**

GTD-FX100



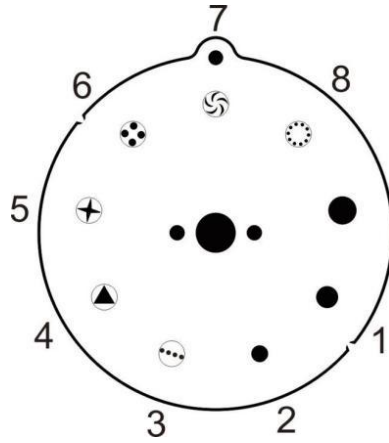
- **Other features**

- Sleep mode: uses the most advanced technology to remotely activate sleep mode. When the fixture is disconnected from signal, the sleep mode is enabled automatically to make it more stable and safer. Sleep time can be customized.
- Communication: DMX wired transmission, RDM two way control technology, upgrade software easily with DMX cable.
- Dissipate heat: With wind direction drainage and temperature intelligent monitoring technology, it can automatically adjust the heat dissipation system and effectively control the bulb temperature according to the start, use, close and other states of the lamp, and the temperature of different positions of the lamp.

8. Gobos and colors

8.1 Gobos

One fixed gobo wheel: 8 gobos + open, CW/CCW rotation, variable speed



Fixed gobo wheel

8.2 Colors

One color wheel: 8 colors + open, split color, CW/CCW rotation, “Rainbow effect” in both directions



- 0、Open
- 1、Red
- 2、Orange
- 3、Yellow
- 4、Green
- 5、Cyan
- 6、Blue
- 7、Rose red
- 8、CTO

9.Menu structure

MENU	Sub-MENU	Three-level menu/parameters	Four-level menu/parameters
Setting	Run Mode	DMX/Sound/AUTO/Scene	
	Scene Set	Scene Select	01-20
		Scene Time	000-255
		Aut Run	ON/OFF
		01 Pan	000-255
		02 Pan Fine	000-255
		03 Pan Rotation	000-255
		04 Tile	000-255
		05 TileFine	000-255
		06 Tile Rotation	000-255
		07 Pan Tile Time	000-255
		08 Shutter&Strobe	000-255
		09 Dimmer	000-255
		10 Color	000-255
		11 Gobo	000-255
		12 Prise	000-255
		14 Frost	000-255
		14 Focus	000-255
		15 Reset	000-255
		16 Led Strobe	000-255
		17 Led Scene	000-255
		18 Led Dir	000-255
		19 Led Scene Speed	000-255
	DMX Address	001-512	
	Device Reset	OFF/ON	
	Channel Mode	19CH/22CH	
	Language	Chinese/English	
	Screen Protect	OFF/ON	
	Screen Rotation	OFF/ON	
	Invert Pan	OFF/ON	
	Invert Tilt	OFF/ON	
	Pan-Tilt Swap	OFF/ON	
	Pan-Tilt Encoder	OFF/ON	

	DMX Signal	Keep/CLEAR	
	Linear Color	OFF/ON	
	Clear Scene Data	OK/Cancel	
	Load Default	OK/Cancel	
Manual Control	01 Pan	000-255	
	02 Pan Fine	000-255	
	03PanRotation	000-255	
	04 Tile	000-255	
	05 Tile Fine	000-255	
	06 Tile Rotation	000-255	
	07 Pan Tile Time	000-255	
	08 Shutter &Strobe	000-255	
	09 Dimmer	000-255	
	10 Color	000-255	
	11 Gobo	000-255	
	12 Prise	000-255	
	13 Frost	000-255	
	14 Focus	000-255	
	15 Reset	000-255	
	16 Led Strobe	000-255	
	17 Led Scene	000-255	
	18 LED Dir	000-255	
	19 Led Scene Speed	000-255	
Information	Ver	Display version number	
	DIS	Display board software version	
	MT	Software version of the motor board	
	Time information	Total bright bubbles	*****: **
		Total usage	*****: **
	System Warning	Display a reset error message	
	Turbo Fan Speed	Display rotational speed	
	Hall State	Display the Hall state	
	Pan Wheel Step	Display value	
	Tilt wheel Step	Display value	
	Authority Hours	Display the duration of the lamp	
Factory	Pan	-128~127	
	Tilt	-128~127	
	Color	-128~127	

	Gobo	-128~127	
	Focus	-128~127	
	Prism1 Cal	-128~127	
	Frost Zero	-128~127	
	Frost	-128~127	
	Clear	OFF/ON	

10. DMX Protocol

Basic (19)	Standard (22)	Name	DMX value		DMX percentage		Function
1	1	Pan axis	0	255	0.0%	100.0%	Horizontal 540-degree scan
2	2	Fine-tuning of the Pan-axis	0	255	0.0%	100.0%	Fine-tuning by 1.2 degrees horizontally
3		Pan axis rotation	0	3	0.0%	1.2%	No function
			4	128	1.6%	50.2%	Reverse rotation, from fast to slow
			129	130	50.6%	51.0%	stop
			131	255	51.4%	100.0%	Forward rotation, from slow to fast
	3	Pan axis rotation CW	0	3	0.0%	1.2%	No function
			4	255	1.6%	100.0%	Reverse rotation, from fast to slow
	4	Pan axis rotation CCW	0	3	0.0%	1.2%	No function
			4	255	1.6%	100.0%	Forward rotation, from slow to fast
4	5	Tilt axis	0	255	0.0%	100.0%	Vertical 270-degree scanning
5	6	Fine-tuning of the Tilt-axis	0	255	0.0%	100.0%	Fine-tuning by 1.2 degrees vertically
6		Tilt axis rotation	0	3	0.0%	200.0%	No function
			4	128	1.6%	300.0%	Reverse rotation, from fast to slow
			129	130	50.6%	400.0%	stop

			131	255	51.4%	500.0%	Forward rotation, from slow to fast
	7	Tilt axis rotation CW	0	3	0.0%	1.2%	No function
			4	255	1.6%	100.0%	Reverse rotation, from fast to slow
	8	Tilt axis rotation CCW	0	3	0.0%	1.2%	No function
			4	255	1.6%	100.0%	Forward rotation, from slow to fast
7	9	Scan speed	0	255	0.0%	100.0%	The speed decreases from fast to slow
8	10	Strobe	0	3	0.0%	1.2%	The light gate is closed
			4	103	1.6%	40.4%	The stroboscopic effect increases from slow to fast
			104	107	40.8%	42.0%	The light gate is open
			108	207	42.4%	81.2%	The pulse stroboscopic speed increases from slow to fast
			208	212	81.6%	83.1%	The light gate is open
			213	251	83.5%	98.4%	Random stroboscopic from slow to fast
			252	255	98.8%	100.0%	The light gate is open
9	11	Intensity	0	255	0.0%	100.0%	From dark to bright
10	12	Color wheel	0	9	0.0%	3.5%	Open
			10	19	3.9%	7.5%	Color 1
			20	29	7.8%	11.4%	Color 2
			30	39	11.8%	15.3%	Color 3
			40	49	15.7%	19.2%	Color 4
			50	59	19.6%	23.1%	Color 5
			60	69	23.5%	27.1%	Color 6
			70	79	27.5%	31.0%	Color 7
			80	89	31.4%	34.9%	Color 8
			90	200	35.3%	78.4%	Color continuous rotation CW from fast to slow
			201	255	78.8%	100.0%	Color continuous rotation CCW from slow to fast
11	13	Gobo wheel (static)	0	4	0.0%	1.6%	Open
			5	9	2.0%	3.5%	Gobo 1

			10	14	3.9%	5.5%	Gobo 2
			15	19	5.9%	7.5%	Gobo 3
			20	24	7.8%	9.4%	Gobo 4
			25	29	9.8%	11.4%	Gobo 5
			30	34	11.8%	13.3%	Gobo 6
			35	39	13.7%	15.3%	Gobo 7
			40	44	15.7%	17.3%	Gobo 8
			45	49	17.6%	19.2%	Open
			50	54	19.6%	21.2%	Gobo 1 shake
			55	59	21.6%	23.1%	Gobo 2 shake
			60	64	23.5%	25.1%	Gobo 3 shake
			65	69	25.5%	27.1%	Gobo 4 shake
			70	74	27.5%	29.0%	Gobo 5 shake
			75	79	29.4%	31.0%	Gobo 6 shake
			80	84	31.4%	32.9%	Gobo 7 shake
			85	89	33.3%	34.9%	Gobo 8 shake
			90	200	35.3%	78.4%	Gobo wheel continous rotation CW from fast to slow
			201	255	78.8%	100.0%	Gobo wheel continous rotation CCW from slow to fast
12	14	Prism rotation	0	127	0.0%	49.8%	Prism indexed
			128	190	50.2%	74.5%	Prism continous rotation CW from fast to slow
			191	193	74.9%	75.7%	Stop
			194	255	76.1%	100.0%	Prism continous rotation CCW from slow to fast
13	15	Frost	0	127	0.0%	49.8%	Off
			128	255	50.2%	100.0%	Frost
14	16	Focus	0	255	0.0%	100.0%	Continuous adjustment from near to far
15	17	Reset	0	250	0.0%	98.0%	No function
			251	255	98.4%	100.0%	Reset

16	18	LED Strobe	0	3	0.0%	1.2%	Open
			4	250	1.6%	98.0%	The stroboscopic effect increases from slow to fast
			251	255	98.4%	100.0%	The light gate opens
17	19	LED Scene	0	11	0.0%	4.3%	Off
			12	13	4.7%	5.1%	Effect 1
			14	15	5.5%	5.9%	Effect 2
			16	17	6.3%	6.7%	Effect 3
			18	19	7.1%	7.5%	Effect 4
			20	21	7.8%	8.2%	Effect 5
			22	23	8.6%	9.0%	Effect 6
			24	25	9.4%	9.8%	Effect 7
			26	27	10.2%	10.6%	Effect 8
			28	29	11.0%	11.4%	Effect 9
			30	31	11.8%	12.2%	Effect 10
			32	33	12.5%	12.9%	Effect 11
			34	35	13.3%	13.7%	Effect 12
			36	37	14.1%	14.5%	Effect 13
			38	39	14.9%	15.3%	Effect 14
			40	41	15.7%	16.1%	Effect 15
			42	43	16.5%	16.9%	Effect 16
			44	45	17.3%	17.6%	Effect 17
			46	47	18.0%	18.4%	Effect 18
			48	49	18.8%	19.2%	Effect 19
			50	51	19.6%	20.0%	Effect 20
			52	55	20.4%	21.6%	Effect 21
			56	59	22.0%	23.1%	Effect 22
			60	63	23.5%	24.7%	Effect 23
			64	67	25.1%	26.3%	Effect 24
			68	71	26.7%	27.8%	Effect 25
			72	75	28.2%	29.4%	Effect 26

			76	79	29.8%	31.0%	Effect 27
			80	83	31.4%	32.5%	Effect 28
			84	87	32.9%	34.1%	Effect 29
			88	91	34.5%	35.7%	Effect 30
			92	95	36.1%	37.3%	Effect 31
			96	99	37.6%	38.8%	Effect 32
			100	103	39.2%	40.4%	Effect 33
			104	107	40.8%	42.0%	Effect 34
			108	111	42.4%	43.5%	Effect 35
			112	115	43.9%	45.1%	Effect 36
			116	119	45.5%	46.7%	Effect 37
			120	123	47.1%	48.2%	Effect 38
			124	127	48.6%	49.8%	Effect 39
			128	131	50.2%	51.4%	Effect 40
			132	135	51.8%	52.9%	Effect 41
			136	139	53.3%	54.5%	Effect 42
			140	143	54.9%	56.1%	Effect 43
			144	147	56.5%	57.6%	Effect 44
			148	151	58.0%	59.2%	Effect 45
			152	155	59.6%	60.8%	Effect 46
			156	159	61.2%	62.4%	Effect 47
			160	163	62.7%	63.9%	Effect 48
			164	167	64.3%	65.5%	Effect 49
			168	171	65.9%	67.1%	Effect 50
			172	175	67.5%	68.6%	Effect 51
			176	179	69.0%	70.2%	Effect 52
			180	183	70.6%	71.8%	Effect 53
			184	187	72.2%	73.3%	Effect 54
			188	191	73.7%	74.9%	Effect 55
			192	195	75.3%	76.5%	Effect 56

			196	199	76.9%	78.0%	Effect 57
			200	203	78.4%	79.6%	Effect 58
			204	207	80.0%	81.2%	Effect 59
			208	211	81.6%	82.7%	Effect 60
			212	215	83.1%	84.3%	Effect 61
			216	219	84.7%	85.9%	Effect 62
			220	223	86.3%	87.5%	Effect 63
			224	227	87.8%	89.0%	Effect 64
			228	231	89.4%	90.6%	Effect 65
			232	235	91.0%	92.2%	Effect 66
			236	239	92.5%	93.7%	Effect 67
			240	243	94.1%	95.3%	Effect 68
			244	247	95.7%	96.9%	Effect 69
			248	251	97.3%	98.4%	Effect 70
			252	255	98.8%	100.0%	Effect 71
18	20	LED direction	0	127	0.0%	49.8%	Reversed
			128	255	50.2%	100.0%	Positive
19	21	LED speed	0	255	0.0%	100.0%	From slow to fast
	22	Y-axis 270/360-degree scanning	0	10	0.0%	3.9%	Hold
			11	127	4.3%	49.8%	The 360-degree scan lasts for 3 seconds
			128	255	50.2%	100.0%	Stay at 270 degrees for 3 seconds

11. Maintenance and Troubleshooting

11.1 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.



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



Notes: 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.

11.2 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 are placement 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.

Problem	Possible Cause	Suggested Correction
	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.
The lamp does not start when switch is turned on	Normal end of lamp life.	Test the lamp in an adjacent fixture which is known to be operating properly and then replace as necessary
	Whether the function of the relay board is intact, whether the signal is normal or not.	Repair or replace.
	Shorted leads between ballast and the lamp	Replace components as required.
	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.
	Incorrect triggers output.	Replace triggers.
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
	Thermostat damaged.	Replace.
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.

Problem	Possible Cause	Suggested Correction
	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.
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.

Guangzhou Hongyang Gtd Stage Equipment Co.,Ltd.

Tel : +86-20-82898660

Web : www.hy-gtd.com | **Email :** contact@hy-gtd.com

Add : No.38 Xiangshan Avenue, Ningxi Sub-district, Zengcheng, Guangzhou,
Guangdong Province, China

