

GTD-F10 II PROFILE 700W II Moving Head

User Manual

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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.gtd-lighting.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!

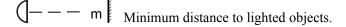
Burn hazard. Hot surface. Do not touch.



Only to direct mounting on non-combustible surfaces.



Replace all cracked glass shields.



ta...°C Maximum ambient temperature.

tc...°C Maximum temp of the external surface.



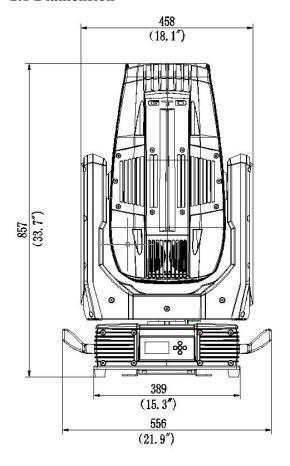
General guidelines 🛆

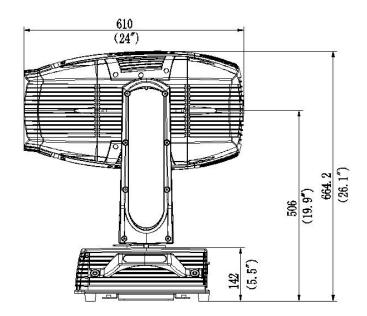
- This product has a protection rating of P66.
- Never open this fixture while in use.
- The fixture should be kept clean. DO NOT operate the fixture in extreme heat or dusty environments. Avoid
 contact with chemical liquid.
- Minimum distance to lighted objects must be 16.4feet (5m).
- Maximum temp of the external surface 194°F (90°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 +8620 61808296.



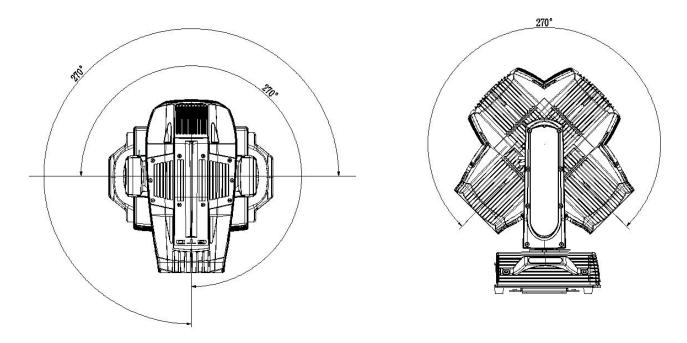
2. Production instructions

2.1 Diamension

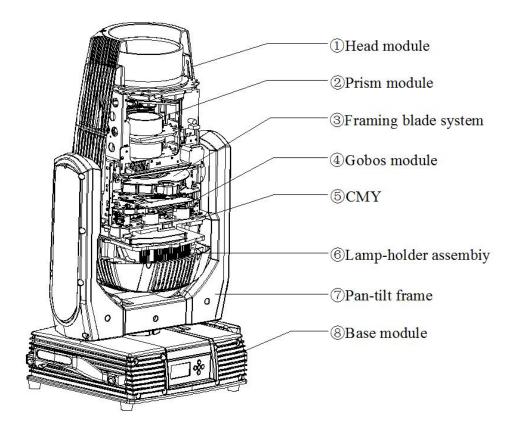








2.2 Fixture overview





2.3 Accessories

Item	Qty	Unit	Remark
User Manual	1	Pc	
Clamps	2	Set	02A+21A 42-52mm Load weight 200KG
Safety cable	1	Pc	Φ5*60cm 7*19 pc with hook Material : Steel
3-pins signal line	1	Set	
Power cord	1	Set	1.5m 2.0mm ² Blue plug

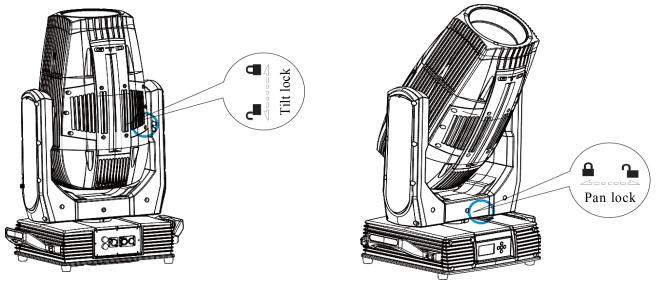
3. Packing and shipping

3.1 Protection lock

Pan and tilt locks are equipped to ensure safe transportation.

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

TILT: 5 lock positions are located on left and right side of the Tilt with the third one in the center.



3.2 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.

3.3 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 3 layers are allowed when piling up the flight cases. 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

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.

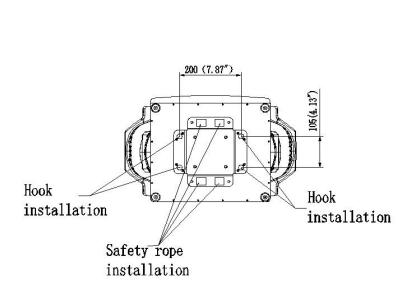
Warning: Use two clamps when mounting the fixture. Turn the screws attached to each clamp a 1/4 turn clockwise to lock.

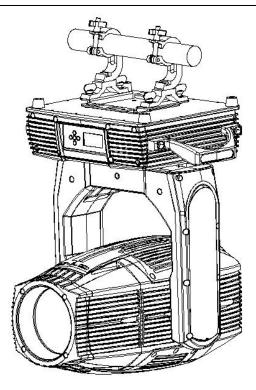
Always remember to use the safety cable which goes through the mounting hole on the base. Do not attach the safety cable on the handle.

4.2 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.







5. Power/ Control connection

5.1 Power connection

Connection method:

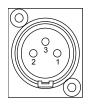
- L (Live) Brown wire
- E (Earth) Yellow / Green bi-color wire
- N (Neutral) Blue wire
- The voltage and frequency of the power source must be in compliance with the ones marked on the fixture. It is

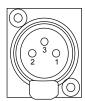


strongly recommended that each fixture are to be connected to the power source separately so that they can be switched on / off individually.

5.2 Control connection

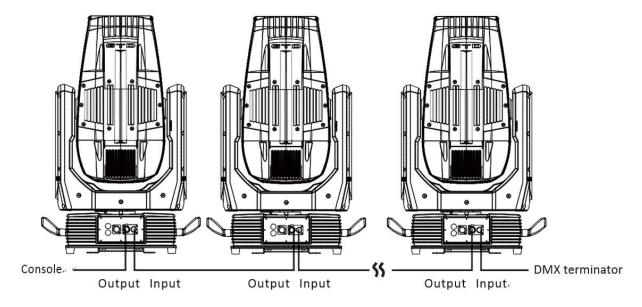
The fixture has 3-pin XLR connectors for DMX data input and output as shown below. Connection between the console and fixture, and between fixtures must be made with 2 core screened DMX signal cable. Maximum connecting distance of signal cable is 150 meters. Additional DMX512 signal-amplifier is recommended 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:



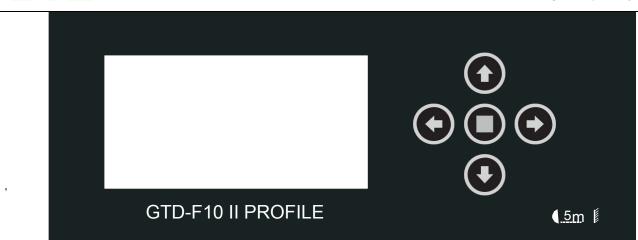
5.3 Testing

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

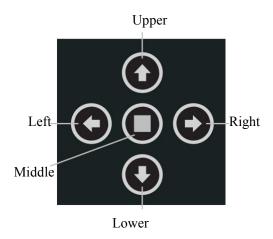
6. Control panel

6.1 Panel instruction





- The control panel features touch-sensitive buttons and OLED digital display for quick and easy setup of address code and functions menu.
- Press the left key to enter the menu, press again to exit the menu, press the up and down keys to select the menu setting item, and press the right key to confirm the setting item. Press the up and down keys to adjust the value of the setting item, then press the right key to confirm, and press the left key to exit the menu setting item successively until exiting the menu.
- Press up and down to set the address, left to exit, right to confirm.
- Middle key (reserved).
- Key Panel Indicator Diagram :



7. Technical specification

• Optical

Light source: SSL731-80-R00-000



Expected average lifetime: 20000 h Color temperature correction: 7000K

Total luminous flux: 35000Lm Color rendering index: ≥90Ra

Zoom: 5° -45°

Spot uniformity: ≥80%

Focus: High-precision glass lenses, electronic linear HD focus

Prism: 1-facet prism, CW/CCW rotation, variable speed

Frost: 1-independent frost effect

Gobo

Rotating gobo wheel: 6 interchangeable gobos + open, indexing, CW/CCW rotation, variable speed

Fixed gobo wheel: 7 gobos + open, CW/CCW rotation, variable speed

Gobo outside diameter: 27mm Max. Image diameter: 22mm Max. Thickness: 3.5mm

Gobo material: Glass

Color

CTO: 7000K-2700K

C, M, Y: linear infinity color mixing

Color wheel: 6colors + open, split color, CW/C CW rotation, "Rainbow effect" in both directions

• Electrical

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

Max. Power consumption: 1111W, max current: 11.3A, PF: ≥0.99

Power supply unit: Auto-ranging electronic SMPS

Main fuse: 250V/15A

Ballast: Electronic

Power input: NEUTRIK socket (input/output)

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

• Control and programming

Control channels (DMX): 37/33/52

Protocol: DMX-512 RDM

Display: Graphic OLED backlit

Physical / Installation

Weight: 55Kg (121.25lbs.)

IP rating: IP66

Material: Aluminum, steel, plastic

Mounting points: Four quarter-turn locking points + attachment points for safety wire

• Dynamic effects



Pan/Tilt movement: 540°/270°

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

Strobe: 1-25Hz, synchronized, pulse effects Dimmer: 0-100%, mechanical dimming

• Thermal

Operating range: 5°F to 113°F (-15°C to +45°C) Startup range: -13°F to 113°F (-25°C to +45°C) Storage range: -40°F to 140°F (-40°C to +60°C)

Cooling: Active fan

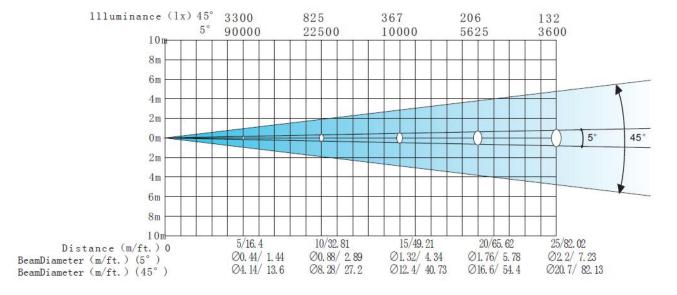
• Certification and Safety

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 7000.1-2015, GB 7000.217-2008

• Photometric

GTD-F10 II Profile



• Other teatures

> Enhanced stability of the fixture due to the wide input voltage AC/DC switching power supply which both reduces the impact of power and voltage fluctuations, and removes the restriction of voltage and frequency variations in different countries.



- Automatic energy saving: when the shutter or CMY is closed, power consumption will be reduced automatically with the photoelectric tracking induction technology.
- > 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.
- > Power setting: built-in continuous rechargeable battery, allowing setting functional data via OLED interface without power connection.
- > Communication:DMX wired transmission,RDM two way control technology,upgrade software easily with DMX cable.
- Disspate heat: With wind direction drainage and temperature intelligent momitoring 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 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:

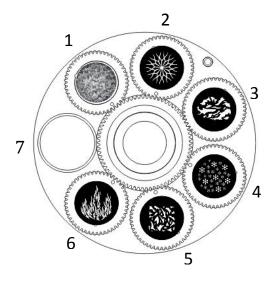
Gobo material	Outer dimension	Effective dimension	Thickness
Glass gobo	Φ27mm	Φ22mm	3.5mm
Gobo material: Glass			

8.2 Gobos

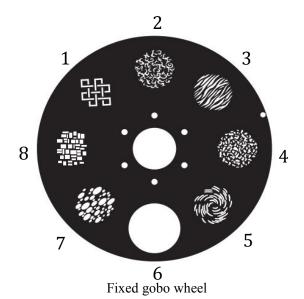
One rotating gobo wheel: 6 interchangeable gobos + open, indexing, CW/CCW rotation, variable speed

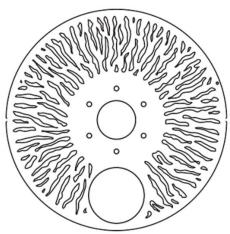
One fixed gobo wheel: 7 gobos + open, CW/CCW rotation, variable speed





Rotating gobo wheel





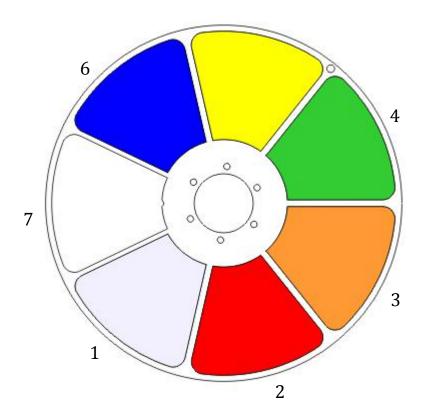
Effect wheel

8.3 Colors

One color wheel: 6 colors + open, split color, CW/CCW rotation, "Rainbow effect" in both directions

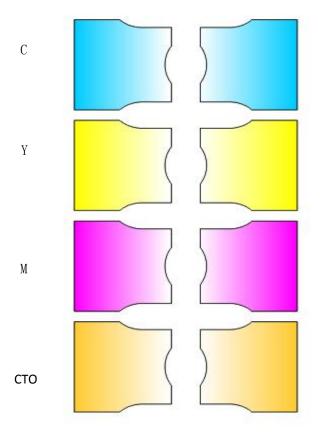
5





- 1: Epiphany
- 2: Red
- 3: Organge
- 4: Green
- 5: Yellow
- 6: Blue
- 7:Open

CMY/CTO





9.Menu structure

Run setting	Address Setting Value Display Auto-Program	Address 001~ XXX strobe King equipment/stand-alone	Setting the DMX address Display the channel value Run auto program in master or slave	
	Time Info	Total Time Last Time Last Time Code Bulb time Lamp Time Code	XXXX H XX:XX Password: XXX XXXX H Password: XXX	Product total run time Last product run time Clear last time password(XXX) Camp life Clear lamp time password (XXX)
l oj	Temperature	Temperature 1 XXX°C	C/°F	
Device Info	Fan information	Blower1 XXXXX rpm Blower2 XXXXX rpm Waterproof fan 1 XXXX Waterproof fan 2 XXXX	XX rpm XX rpm	
	False information	Reset error		
	System information	Firmware version Software version Hardware version		Equipment Control Systerm Information
	Status Setting	No Signal Status Pan Reverse Tilt Reverse I	Enable/Disable Off/Hold/Auto/Music Enable/Disable Enable/Disable Enable/Disable	Address can be changed by The status while no signal Pan Reverse Tilt Reverse Automatic reset after manual scan
etting	Fan Speed	Smart Control High Speed Low Speed		Auto fans speed Fans high speed Fans low speed
System Set	Display Setting	Backlight Time Key Lock Show Reverse Languagev	1~59M, 5M Enable/Disabl Auto/Positive/reverse English/Chinese	Backlight off time Press <menu> 3s to unlock Display direction switch Change the language</menu>
	Temperature Unit	Celsius Fahrenheit		Temperature unit
	Restore Default	Restore/Cancel		Restore to default value
	Dimming modw	Slow Dimming Fast Dimming		Slow Dimming Fast Dimming



Reset	System Reset Scan Reset ColorReset Gobo Reset Strobe Reset			System reset Pan and tilt motor reset Color motor reset All gobo motor reset Strober motor reset
	Framingblade Rest Other Reset			Framing blade motor rest All other motor reset
ust	Test Mode	Pan		Every channel test
l Adjust	Manual Mode	Pan:	Pan = XXX:	Manual control
Channel	Adjust Mode	Input Password Pan:	Password = XXX(99) Pan = XXX:	The password of adjust mode Fixed all begin position
Channel Mode	Channel mode selection	Standard Mode/Basic Mo	de/Extended Mode	Standard Mode Basic Mode Extended Mode



Note: Settings hightlighted in light grey are default values.



10. DMX Protocol

Standard Mode	Basic Mode	Extended Mode	Name		MX ilue	DMX percentage		Function
				0	31	0.0%	12.2%	Closed
				32	63	12.5%	24.7%	Open
1	1	1	C4 - 1 - /C1 - 44	64	127	25.1%	49.8%	Synchronous strobe from slow to fast
1	1	1	Strobe/Shutter	128	159	50.2%	62.4%	Open
				160	223	62.7%	87.5%	Random strobe from slow to fast
				224	255	87.8%	100.0%	Open
2	2	2	Intensity	0	255	0.0%	100.0%	No light → Full light
		3	Intensity fade, fine (LSB)	0	255	0.0%	100.0%	Intensity fade
3	3	4	Cyan	0	255	0.0%	100.0%	White → Full cyan
		5	Cyan fade, fine (LSB)	0	255	0.0%	100.0%	Cyan fade, fine (LSB)
4	4	6	Magenta	0	255	0.0%	100.0%	White → Full magenta
		7	Magenta fade, fine (LSB)	0	255	0.0%	100.0%	Magenta fade, fine (LSB)
5	5	8	Yellow	0	255	0.0%	100.0%	White → Full yellow
		9	Yellow fade, fine (LSB)	0	255	0.0%	100.0%	Yellow fade, fine (LSB)
				0	15	0.0%	5.9%	CMY color macro off
6	6	10	CMY color macro	16	135	6.3%	52.9%	CMY synchronous color from slow to fast
				136	255	53.3%	100.0%	CMY random color from slow to fast
7	7	11	Color temperature (CTO)	0	255	0.0%	100.0%	Color temperature CTO 0~100%
		Color temperature	0	255	0.0%	100.0%	Color temperature fade, fine (LSB)	
		12	(CTO)16BIT	0		0.0% 100	100.070	CTO 从 0~100%
				0	19	0.0%	7.5%	Open
				20	37	7.8%	14.5%	Color 1
				38	55	14.9%	21.6%	Color 2
				56	73	22.0%	28.6%	Color 3
			Calanuhaal	74	91	29.0%	35.7%	Color 4
8	8	13	Color wheel (6+1)	92	109	36.1%	42.7%	Color 5
			(0+1)	110	127	43.1%	49.8%	Color 6
				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 CCW from slow to fast	
				0	15	0.0%	5.9%	Open gobo
			Caba o baal	16	23	6.3%	9.0%	Gobo 1
9	9	14	Gobo wheel	24	31	9.4%	12.2%	Gobo 2
		(7+1)		32	39	12.5%	15.3%	Gobo 3
				40	47	15.7%	18.4%	Gobo 4



Standard Mode	Basic Mode	Extended Mode	Name	DMX	X Value	DMX pe	ercentage	Function	
				48	55	18.8%	21.6%	Gobo 5	
				56	63	22.0%	24.7%	Gobo 6	
				64	71	25.1%	27.8%	Gobo 7	
				72	79	28.2%	31.0%	Gobo 1 shake	
				80	87	31.4%	34.1%	Gobo 2 shake	
				88	95	34.5%	37.3%	Gobo 3 shake	
			Gobo wheel	96	103	37.6%	40.4%	Gobo 4 shake	
9	9	14	(7+1)	104	111	40.8%	43.5%	Gobo 5 shake	
				112	119	43.9%	46.7%	Gobo 6 shake	
				120	127	47.1%	49.8%	Gobo 7 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	7	0.0%	2.7%	Open gobo
				8	17	3.1%	6.7%	Gobo 1	
				18	27	7.1%	10.6%	Gobo 2	
				28	37	11.0%	14.5%	Gobo 3	
				38	47	14.9%	18.4%	Gobo 4	
					48	57	18.8%	22.4%	Gobo 5
				58	67	22.7%	26.3%	Gobo 6	
				68	77	26.7%	30.2%	Gobo 1 shake	
10	10	15	Rotating gobo wheel	78	87	30.6%	34.1%	Gobo 2 shake	
			(6+1)	88	97	34.5%	38.0%	Gobo 3 shake	
				98	107	38.4%	42.0%	Gobo 4 shake	
				108	117	42.4%	45.9%	Gobo 5 shake	
				118	127	46.3%	49.8%	Gobo 6 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	
			Gobo	128	187	50.2%	73.3%	Gobo continous rotation CW from slow to fast	
11	11	16	rotating/positioning	188	195	73.7%	76.5%	Stop	
		gobo wheel	196	255	76.9%	100.0%	Gobo continous rotation CCW from slow to fast		



Standard Mode	Basic Mode	Extended Mode	Name	DMΣ	K Value	DMX pe	ercentage	Function
12		17	Gobo rotation/positioning, fine (LSB)	0	255	0.0%	100.0%	Gobo rotation/positioning, fine (LSB)
13	12	18	Framing blade 1 (up)	0	255	0.0%	100.0%	Framing, Big → Small
		19	Framing blade 1 (up) ,fine tunning	0	255	0.0%	100.0%	Framing blade 1 (up) ,fine tunning
14	13	20	Framing blade 2 (up)	0	255	0.0%	100.0%	Framing, Big → Small
		21	Framing blade 2 (up) ,fine tunning	0	255	0.0%	100.0%	Framing blade 2 (up) ,fine tunning
15	14	22	Framing blade 1 (down)	0	255	0.0%	100.0%	Framing, Big → Small
		23	Framing blade 1 (down), fine tunning	0	255	0.0%	100.0%	Framing blade 1 (down), fine tunning
16	15	24	Framing blade 2 (down)	0	255	0.0%	100.0%	Framing, Big → Small
		25	Framing blade 2 (down), fine tunning	0	255	0.0%	100.0%	Framing blade 2 (down), fine tunning
17	16	26	Framing blade 1(left)	0	255	0.0%	100.0%	Framing, Big → Small
		27	Framing blade 1(left), fine tunning	0	255	0.0%	100.0%	Framing blade 1(left), fine tunning
18	17	28	Framing blade 2(left)	0	255	0.0%	100.0%	Framing, Big → Small
		29	Framing blade 2(left), fine tunning	0	255	0.0%	100.0%	Framing blade 2 (left), fine tunning
19	18	30	Framing blade 1 (right)	0	255	0.0%	100.0%	Framing, Big → Small
		31	Framing blade 1 (right), fine tunning	0	255	0.0%	100.0%	Framing blade 1 (right), fine tunning
20	19	32	Framing blade 2 (right)	0	255	0.0%	100.0%	Framing, Big → Small
		33	Framing blade 2 (right), fine tunning	0	255	0.0%	100.0%	Framing blade 2 (right), fine tunning
21	20	34	Framing blade rotation	0	255	0.0%	100.0%	Framing blade rotation
		35	Framing blade rotation, fine tunning	0	255	0.0%	100.0%	Framing blade rotation, fine tunning
22	21	36	Framing blade speed control	0	255	0.0%	100.0%	Framing speed, fast→ slow
23	22	37	Iris	0	255	0.0%	100.0%	Open-Closed
				0	31	0.0%	12.2%	Closed
				32	63	12.5%	24.7%	Synchronous opening pluse, fast→ slow
24	23	38	Iris macro function	64	95	25.1%	37.3%	Synchronous closing pluse, slow→ fast
				96	127	37.6%	49.8%	Random opening pluse slow→ fast
Standard Mode	Basic Mode	Extended Mode	Name	DMX Value		DMX per	centage	Function



24	22	20		128	159	50.2%	62.4%	Random closing pluse fast→			
24	23	38	Iris macro function	160	191	62.7%	74.9%	Iris with strobe			
				192	255	75.3%	100.0%	Maximum Iris			
25	24	39	Focus	0	255	0.0%	100.0%	Near→ Infinity			
26		40	Focus 16Bit	0	255	0.0%	100.0%	Focus, fine tunning			
27	25	41	Zoom	0	255	0.0%	100.0%	Small→Maximum beam			
		42	Zoom 16Bit	0	255	0.0%	100.0%	Zoom, fine tunning			
28	26	43	Prism	0	31	0.0%	12.2%	Off			
28	20	43	PIISIII	32	255	12.5%	100.0%	On			
							0	127	0.0%	49.8%	Prism rotation position
29	27	44	Prism rotation position	128	187	50.2%	73.3%	CCW rotation, slow→ fast			
29	21	44		188	195	73.7%	76.5%	Stop			
				196	255	76.9%	100.0%	Prism CW rotation, slow→ fast			
30	28	45	Frost	0	255	0.0%	100.0%	Frost, shallow → deep			
				0	127	0.0%	49.8%	off			
31	29	46	Effect Wheel	128	255	50.2%	100.0%	Effect Wheel CW rotation,			
				120	233	30.270	100.076	slow→ fast			
32	30	47	Pan	0	255	0.0%	100.0%	Pan scanning			
33		48	Pan 16Bit	0	255	0.0%	100.0%	Pan scanning, fine tunning			
34	31	49	Tilt	0	255	0.0%	100.0%	Tilt scanning			
35		50	Tilt 16Bit	0	255	0.0%	100.0%	Tilt scanning, fine tunning			
36	32	51	Pan/Tilt speed	0	255	0.0%	100.0%	fast→ slow			

Standard	Basic	Extended	Name	DMX Value		DMX percentage		Function
Mode	Mode	Mode						
37	33	52	Special	0	29	0.0%	11.4%	No function

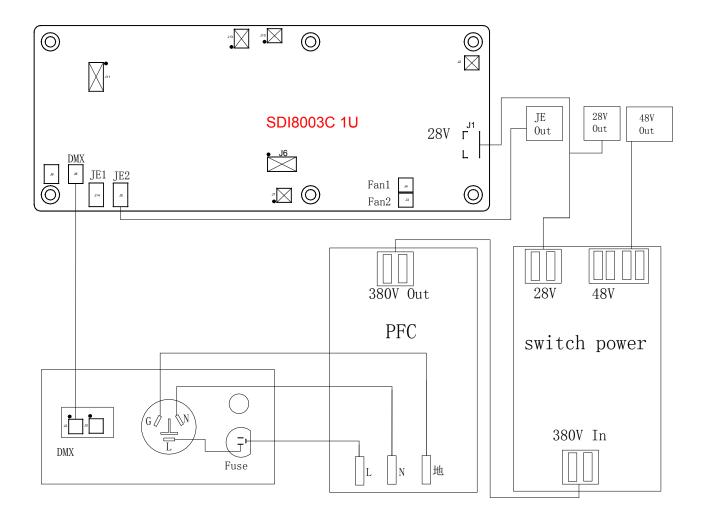


control	30	39	11.8%	15.3%	Color wheel dichroic switch
	40	49	15.7%	19.2%	Color wheel arbitrary positioning
	50	59	19.6%	23.1%	No function
	60	69	23.5%	27.1%	Reset entire motors after 5 sec
	70	79	27.5%	31.0%	Reset Pan/Tilt motors after 5 sec
	80	89	31.4%	34.9%	Reset all color-wheels' motors after 5 sec
	90	99	35.3%	38.8%	Reset all gobo motors after 5 sec
	100	109	39.2%	42.7%	Reset all framing motors after 5 sec
	110	119	43.1%	46.7%	Reset other motor reset after 5 sec
	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

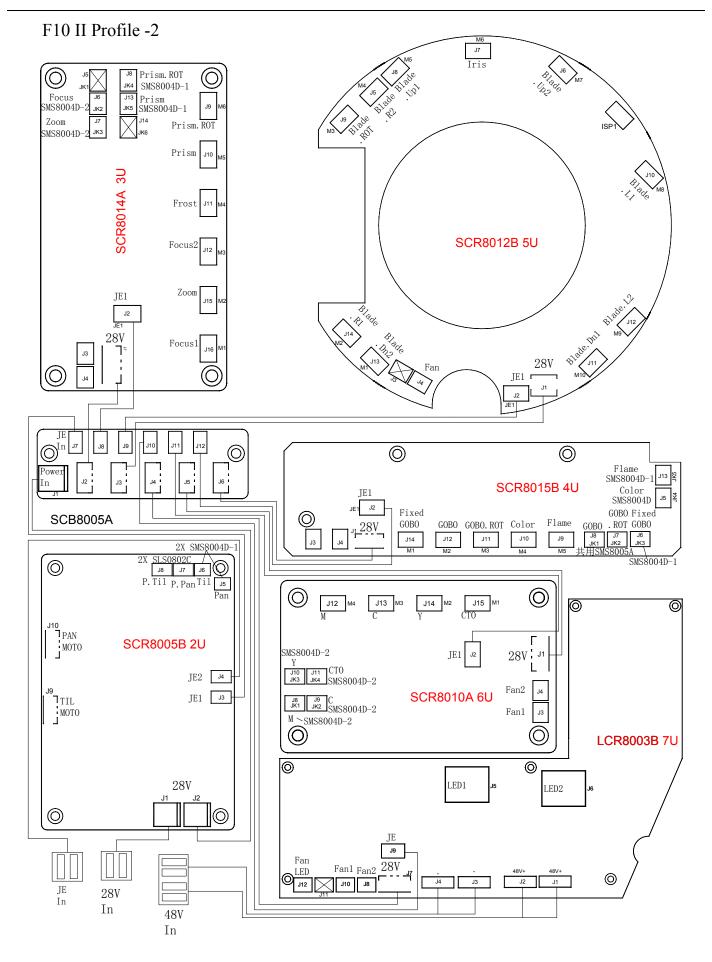


11. System wiring diagram

F10 II Profile -1









12. Maintenance and Troubleshooting

12.1 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.

Warning

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 are 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.



12.2 Troubleshooting

Problem	Possible Cause	Suggested Correction		
	Power switch not turned on.	Turn on power switch.		
No response after	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.		
connected to A/C power	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.		
	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.		
No response or wrong response to the commands of the	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.		
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.		
	The main control board PWM signal no output.	Replace themain control board or repair		
The lamp does not start when switch is	The drive plate LED+ / LED- no output or overload, poor contact of line interface.	Reconnect the terminal,replace the drive board.		
turned on	Whether the service life of LED reaches the limit, whether the welding is poor, and whether the heat dissipation performance is poor.	Repair and replace the LED light source or the whole aluminum base plate, and eliminate the cooling system fault.		
	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.		
The lamp is off unexpected	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.		
	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.		
Shaking, wrong position, and out of	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.		
control gobo wheel	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.

13. Spare parts list

Item	P/N	Qty	Notes
F10 II PROFILE Display(SDI8003C)	5809210107A	1	GTD-F10 II PROFILE-101A10 SDI8003C
Scan board(SCR8005B-1)	5809210166A	1	GTD-F10 II PROFILE-201A10 SCR8005B
Focusing amplification motor drive board (SCR8014A-1)	5809210157A	1	GTD-F10 II PROFILE-301A10 SCR8014A
Pattern motor drive board (SCR8015B-1)	5809210159A	1	GTD-F10 II PROFILE-401A10 SCR8015B
Cutting motor drive board (SCR8012B-1)	5809210158A	1	GTD-F10 II PROFILE-501A10 SCR8012B
CMY motor drive board (SCR8010A-1)	5809210160A	1	GTD-F10 II PROFILE-601A10 SCR8010A
LED drive board (LCR8003B-1)	5809210161A	1	GTD-F10 II PROFILE-701A10 LCR8003B
Power Supply	1412050085	1	EDS1200-4828P 48V 18A/28V 12A



Guangzhou GTD Culture & Technology Group Co., Ltd.

Tel: 86-20-61808288

Fax: 86-20-61812282

http://www.gtd-china.com