FAT BEAM LASER BAR

Please read this manual carefully before use!

Contents

Thank you for your patronage. We are confident that our excellent products and service can satisfy you. For your own safety, please read this user manual carefully before installing the device.

In order to install , operate, and maintain the light correctly, we suggest that the installation and operation should be done by the verified technician with following the instruction strictly.

This moving laser bar's output is amazing. It is well designed with professional aluminum alloy housing. It makes full use of the advanced electronic positioning technology, and with international standard DMX512 control system. It is ideal for TV show, disco, dancing hall, night club, stage....

Parts inside the box:

Item	Quantity	Unit
Light fixture	1	pc
User Manuel	1	pc
Power Cable	1	pc
Handle	2	pcs

Please check carefully that there is no damage caused by transportation. Please contact your local dealer if any problem.
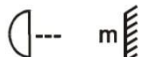
Caution

Before leaving the factory, this unit has passed strict inspection, functions stable and perfect packing. If this unit is operated in any way different to the one described in this manual, the product may suffer damages and the guarantee becomes void. Furthermore, any other operation may lead to dangers like short circuit, burns, electric shock, crash etc. If any technology changes of this manual, company do not notice in further and have interpretation.

CAUTION!

Keep this device away from rain and moisture!

Unplug mains lead before opening the housing!

Warning!

Damages caused by the disregard of this user manual are not subject to warranty. The dealer will not accept liability for any resulting defects or

Symbol Instruction On The Device

CE ·· **CE Certificate**

·········· **Suitable directly installed on the common combustible materials devices**

·· **Only indoor using**

··· **Environmental protection**

····················· **The minimum distance from lighted objects(meter)**

Safety Instructions

This unit was in perfect condition before leaving factory. In order to maintain this condition and to ensure a safe operation, it is absolutely necessary for the user to follow the safety instructions and warning notes written in this user manual.

►Unpack and check carefully there is no transportation damage before using the unit.

►Disconnect main power before replacement or servicing.

►The unit must be installed in a location with adequate ventilation, at least 50cm from adjacent surfaces. Be sure that no ventilation slots are blocked.

►Maximum ambient temperature is Ta: 40 degrees C. DO NOT operate it where the temperature is higher than this.

►In the event of a serious operating problem, stop using the unit immediately. Never try to repair the unit by yourself. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center. Always use the same type spare parts.

►DO NOT connect any dimmer.

►DO NOT touch any cables during operation as high voltage may cause electric shock.

►To prevent or reduce the risk of electrical shock or fire, do not expose the unit to rain or moisture.

►After unit working for 8 hours continuously, let the unit to take appropriate rest. It can reduce some damage and good for lifetime.

►Laser radiation avoids body exposure, especially for eye, it's easy to cause blindness. Please keep the safe distance at 1 meters above.

►To prevent or reduce the risk of electrical shock or fire, do not expose the unit to rain or moisture.

►The housing and lenses must be replaced if they are visibly damaged.

CAUTION!

⚠️ Please consider the GB7000.15/EN60598-2-17 and the other respective national norms during
The installation. The installation must only be carried out by a qualified person.


Installation Instruction

● This unit can not be installed on the surface of flammable materials. Please ensure the unit is at least 0.5m away from flammable and explosive materials.

● The installation must always be secured with a secondary safety e.g. an appropriate safety rope.Never stand directly below the device when mounting, removing or servicing the fixture.

● The applicable temperature for the lighting is between -10°C to 45°C. Do not use the lighting under or above the temperature.

● Before installation, must ensure installation bracket, handle or truss for this light can hold 10 times of the fixture weight for 1 hour without any harming deformation.

● The operator has to make sure the safety relating and machine technical installations are approved by an expert before taking the device into operation for the first time.

● These installations have to be approved by a skilled person once a year.

● Overhead mounting requires extensive experience, including others calculating working load limits, installation material being used, and periodic safety inspection of all installation material and the device. If you lack these qualifications, do not attempt the installation yourself. Improper installation can result in bodily injury.
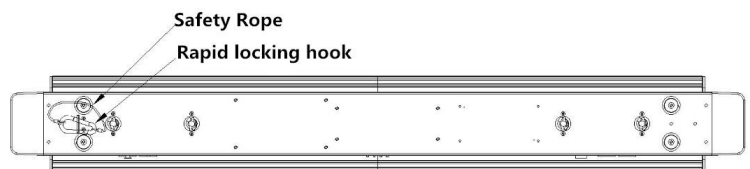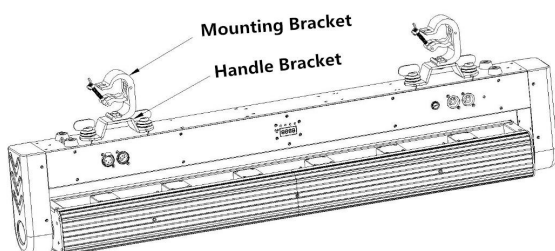
Insert the quick-lock fasteners of the first holder into the respective holes on the bottom of the device.Tighten the quick-lock fasteners fully clockwise.
Make the finished installed mounting bracket tighten on the fixed bracket.
Pull the safety rope through the holes on the bottom of the base and over the trussing system or other safe fixation spot.
Note:This step is quite important to ensure that fixture will not drop out by the damage of clamp.

Product specification

Laser diode: 6pcs*1W RGB (260mW/638nm+340mW/520nm+400mW/450nm) ; average lifetime is over 2000 hours,
Each laser diode separately control
DMX channel：9CH/19-1CH/19-2CH/32CH
Control mode ：Master/Slave, Auto, DMX512, Sound
Pan: 240° , Tilt: 90°
Electrical strobe: 1~23Hz；
Input voltage：AC100 ~240V　50/60Hz，
Power consumption: 150W
3pin DMX input/output, Power Con input/output

Display

1:Power In　6:(DOWN)
2:Power Out 7:(ENTER)
3: Fuse　　8: Display
4:(MENU)　9: DMX In
5:(UP)　　10: Dmx Out
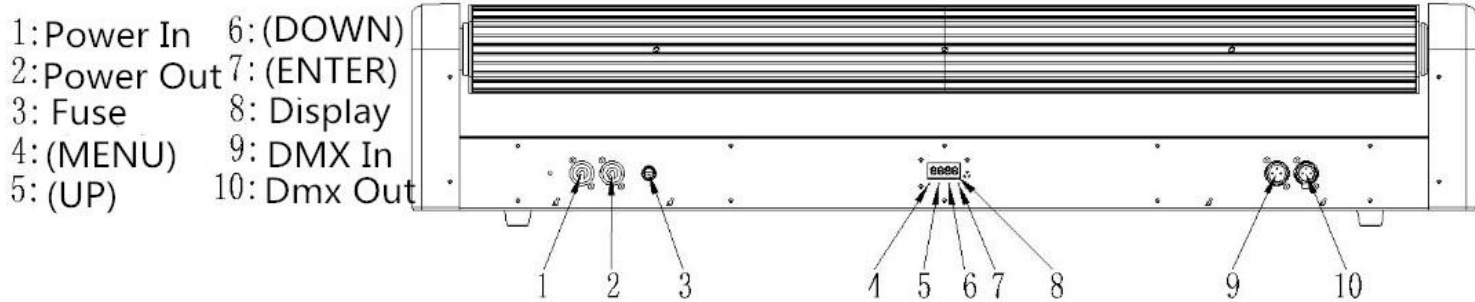
MENU Nap

Nenu（MENU）	Addr (Address setting)	enter	+/-	set address （001-512）	enter(save and exit)
	Chnd (Channel option)	enter	+/-	9 Ch	enter(save and exit)
				19_1Ch	enter(save and exit)
				19_2Ch	enter(save and exit)
	SLnd (Master/Slave)	enter	+/-	Mast	enter(save and exit)
				SL 1	enter(save and exit)
	Lost (Without DMX)	enter	+/-	blac (Master)	enter(save and exit)
				hold	enter(save and exit)
				auto (Auto)	enter(save and exit)
				soun (Sound)	enter(save and exit)
	Sens (Sound sensitivity)	enter	+/-	SE00-SE99	enter(save and exit)　　）
	Sped (Auto Speed)	enter	+/-	SP00-SP99	enter(save and exit)
	Inur (Reverse setting)	enter	+/-	Pan --> YES/NO	enter(save and exit)
				Til1 --> YES/NO	enter(save and exit)

			Til2 --> YES/NO	enter(save and exit)
			Til3 --> YES/NO	enter(save and exit)
			Til4 --> YES/NO	enter(save and exit)
			Til5 --> YES/NO	enter(save and exit) 〉
			Til6 --> YES/NO	enter(save and exit)
Nadj (Motor adjustment)	enter	+/-	Padj --> 000-255	enter(save and exit)
			T1aj --> 000-255	enter(save and exit)
			T2aj --> 000-255	enter(save and exit)
			T3aj --> 000-255	enter(save and exit)〉
			T4aj --> 000-255	enter(save and exit)
			T5aj --> 000-255	enter(save and exit)
			T6aj --> 000-255	enter(save and exit)
Test (Programme test)	enter	+/-	Function test	enter(save and exit)
Led (Black-out)	enter	+/-	on	enter(save and exit)
			off	enter(save and exit)
disp (Display reverse)	enter	+/-	on	enter(save and exit)
			off	enter(save and exit)
Fhrs (Working time)	enter		Working time	enter(save and exit)
Ver (Software version)	enter		Software version	enter(save and exit)
REST	enter		Rest function	enter(save and exit)
defa (Factory default)	enter		Factory default	enter(save and exit)

MENU operation

This fixture has 4 keys on panel for operation, press these keys to set DMX address, reset, edit and run programs and so on.

[MENU]: press MENU key to enter edit status, in edit status, if press MENU again, it will return the upper interface. If no operation 30 seconds after enter edit status, the fixture will exit the edit status automatically.

[Up]: press UP key, the indicator will flash, the address increases one by one, if hold the key continuously, the address will increase rapidly. If no press within 30 seconds, the indicator stops flashing and exit it.   In edit status, press UP key, it will display the options circularly from down to up.

[Down]：press DOWN key, the indicator will flash, the address decreases one by one, if hold the key continuously,

the address will decrease rapidly. If no press within 30 seconds, the indicator stops flashing and exit it. In edit status, press DOWN key, it will display the options circularly from up to down.

[ENTER]：in normal status, no function after press ENTER. In edit mode, press ENTER to enter lower interface.

DMX512 Channel

1) 9 DMX Channel chart

Channel		Value	Function
CH1	Pan	000-255	Pan angle：0-260°
CH2	Pan Speed	000-255	Pan speed from slow to fast
CH3	Tilt	000-255	Tilt 1-6；Pan：0-90°
CH4	Tilt Speed	000-255	Tilt speed from slow to fast
CH5	Dimmer	000-127	OFF
		128-255	ON
CH6	Strobe	000-015	OFF
		016-030	ON
		031-090	Variable strobe from slow to fast
		091-105	ON
		106-165	Pulse effect from slow to fast
		166-180	ON
		181-240	Random strobe from slow to fast
		241-255	ON
CH7	Laser Macro1-6	000-010	OFF
		011-045	R
		046-080	G
		081-115	B
		116-150	R&G
		151-185	R&B
		186-220	G&B
		221-255	R&G&B

		000-008	NO FUNCTION
CH8	Reset / Auto	009-019	SHOW1
		020-030	SHOW2
		031-041	SHOW3
		042-052	SHOW4
		053-063	SHOW5
		064-074	SHOW6
		075-085	SHOW7
		086-096	SHOW8
		097-107	SHOW9
		108-118	SHOW10
		119-129	SHOW11
		130-140	SHOW12
		141-151	SHOW13
		152-162	SHOW14
		163-173	SHOW15
		174-184	SHOW16
		185-195	SHOW17
		196-206	SHOW18
		207-217	SHOW19
		218-228	SHOW20
		229-239	SHOW21
		240-250	Auto effect
		251-255	Reset
CH9	Auto program / Sound mode	000-250	Program speed from slow to fast
		251-255	Sound mode

2) 19-1 DMX Channel chart

Channel		Value	Function

CH1	Pan	000-255	Pan angle：0-260°
CH2	PanSpeed	000-255	Pan speed from fast to slow
CH3	Tilt1	000-255	Tilt angle：0-90°
CH4	Tilt2	000-255	Tilt angle：0-90°
CH5	Tilt3	000-255	Tilt angle：0-90°
CH6	Tilt4	000-255	Tilt angle：0-90°
CH7	Tilt5	000-015	Tilt angle：0-90°
CH8	Tilt6	000-255	Tilt angle：0-90°
CH9	TiltSpeed	000-255	Pan speed from fast to slow
CH10	Dimmer	000-127	OFF
		128-255	ON
CH11	Strobe	000-015	OFF
		016-030	ON
		031-090	VARIABLE STROBE SLOW TO FAST
		091-105	ON
		106-165	PULSE EFFECT SLOW TO FAST
		166-180	ON
		181-240	RANDOM STROBE SLOW TO FAST
		241-255	ON
CH12	Laser 1 Macro	000-010	OFF
		011-045	R
		046-080	G
		081-115	B
		116-150	R&G
		151-185	R&B
		186-220	G&B
		221-255	R&G&B
CH13	Laser 2 Macro	000-010	OFF
		011-045	R

		046-080	G
		081-115	B
		116-150	R&G
		151-185	R&B
		186-220	G&B
		221-255	R&G&B
CH14	Laser 3 Macro	000-010	OFF
		011-045	R
		046-080	G
		081-115	B
		116-150	R&G
		151-185	R&B
		186-220	G&B
		221-255	R&G&B
CH15	Laser 4 Macro	000-010	OFF
		011-045	R
		046-080	G
		081-115	B
		116-150	R&G
		151-185	R&B
		186-220	G&B
		221-255	R&G&B
CH16	Laser 5 Macro	000-010	OFF
		011-045	R
		046-080	G
		081-115	B
		116-150	R&G
		151-185	R&B
		186-220	G&B

		221-255	R&G&B
CH17	Laser 6 Macro	000-010	OFF
		011-045	R
		046-080	G
		081-115	B
		116-150	R&G
		151-185	R&B
		186-220	G&B
		221-255	R&G&B
CH18	Reset / Auto	000-008	NO FUNCTION
		009-019	SHOW1
		020-030	SHOW2）
		031-041	SHOW3
		042-052	SHOW4
		053-063	SHOW5
		064-074	SHOW6
		075-085	SHOW7
		086-096	SHOW8
		097-107	SHOW9
		108-118	SHOW10
		119-129	SHOW11
		130-140	SHOW12
		141-151	SHOW13
		152-162	SHOW14
		163-173	SHOW15
		174-184	SHOW16
		185-195	SHOW17
		196-206	SHOW18
		207-217	SHOW19

		218-228	SHOW20
		229-239	SHOW21
		240-250	Auto effect
		251-255	Reset
CH19	Auto program / Sound mode	000-250	Program speed from slow to fast
		251-255	Sound mode

3) 19-2 DMX Channel chart

Channel		Value	Function
CH1	Tilt1	000-255	Tilt angle：0-90°
CH2	Laser 1 Macro	000-010	OFF
		011-045	R
		046-080	G
		081-115	B
		116-150	R&G
		151-185	R&B
		186-220	G&B
		221-255	R&G&B
CH3	Tilt2	000-255	Tilt angle：0-90°
CH4	Laser 2 Macro	000-010	OFF
		011-045	R
		046-080	G
		081-115	B
		116-150	R&G
		151-185	R&B
		186-220	G&B
		221-255	R&G&B
CH5	Tilt3	000-255	Tilt angle：0-90°
CH6	Laser 3 Macro	000-010	OFF

		011-045	R
		046-080	G
		081-115	B
		116-150	R&G
		151-185	R&B
		186-220	G&B
		221-255	R&G&B
CH7	Tilt4	000-255	Tilt angle：0-90°
CH8	Laser 4 Macro	000-010	OFF
		011-045	R
		046-080	G
		081-115	B
		116-150	R&G
		151-185	R&B
		186-220	G&B
		221-255	R&G&B
CH9	Tilt5	000-015	Tilt angle：0-90°
CH10	Laser 5 Macro	000-010	OFF
		011-045	R
		046-080	G
		081-115	B
		116-150	R&G
		151-185	R&B
		186-220	G&B
		221-255	R&G&B
CH11	Tilt6	000-255	Tilt angle：0-90°
CH12	Laser 6 Macro	000-010	OFF
		011-045	R
		046-080	G

		081-115	B
		116-150	R&G
		151-185	R&B
		186-220	G&B
		221-255	R&G&B
CH13	Dimmer	000-127	OFF
		128-255	ON
CH14	Strobe	000-015	OFF
		016-030	ON
		031-090	VARIABLE STROBE SLOW TO FAST
		091-105	ON
		106-165	PULSE EFFECT SLOW TO FAST
		166-180	ON
		181-240	RANDOM STROBE SLOW TO FAST
		241-255	ON
CH15	Pan	000-255	Pan angle：0-260°
CH16	Pan Speed	000-255	Pan speed from fast to slow
CH17	Tilt Speed	000-255	Pan speed from fast to slow
CH18	Reset / Auto	000-008	NO FUNCTION
		009-019	SHOW1
		020-030	SHOW2
		031-041	SHOW3
		042-052	SHOW4
		053-063	SHOW5
		064-074	SHOW6
		075-085	SHOW7
		086-096	SHOW8
		097-107	SHOW9
		108-118	SHOW10

		119-129	SHOW11
		130-140	SHOW12
		141-151	SHOW13
		152-162	SHOW14
		163-173	SHOW15
		174-184	SHOW16
		185-195	SHOW17
		196-206	SHOW18
		207-217	SHOW19
		218-228	SHOW20
		229-239	SHOW21
		240-250	Auto effect
		251-255	Reset
CH19	Auto program / Sound mode	000-250	Program speed from slow to fast
		251-255	Sound mode

4) 32 DMX Channel chart

Channel		Value	Function
CH1	Pan	000-255	Pan angle：0-260°
CH2	PanSpeed	000-255	Pan speed from fast to slow
CH3	Tilt1	000-255	Tilt angle：0-90°
CH4	Tilt2	000-255	Tilt angle：0-90°
CH5	Tilt3	000-255	Tilt angle：0-90°
CH6	Tilt4	000-255	Tilt angle：0-90°
CH7	Tilt5	000-015	Tilt angle：0-90°
CH8	Tilt6	000-255	Tilt angle：0-90°
CH9	TiltSpeed	000-255	Tilt speed from fast to slow
CH10	Dimmer	000-127	OFF
		128-255	ON
CH11	Strobe	000-015	OFF

		016-030	ON
		031-090	VARIABLE STROBE SLOW TO FAST
		091-105	ON
		106-165	PULSE EFFECT SLOW TO FAST
		166-180	ON
		181-240	RANDOM STROBE SLOW TO FAST
		241-255	ON
CH12	Laser-R1	000-127	OFF
		128-255	ON
CH13	Laser-G1	000-127	OFF
		128-255	ON
CH14	Laser-B1	000-127	OFF
		128-255	ON
CH15	Laser-R2	000-127	OFF
		128-255	ON
CH16	Laser-G2	000-127	OFF
		128-255	ON
CH17	Laser-B2	000-127	OFF
		128-255	ON
CH18	Laser-R3	000-127	OFF
		128-255	ON
CH19	Laser-G3	000-127	OFF
		128-255	ON
CH20	Laser-B3	000-127	OFF
		128-255	ON
CH21	Laser-R4	000-127	OFF
		128-255	ON
CH22	Laser-G4	000-127	OFF
		128-255	ON

CH23	Laser-B4	000-127	OFF
		128-255	ON
CH24	Laser-R5	000-127	OFF
		128-255	ON
CH25	Laser-G5	000-127	OFF
		128-255	ON
CH26	Laser-B5	000-127	OFF
		128-255	ON
CH27	Laser-R6	000-127	OFF
		128-255	ON
CH28	Laser-G6	000-127	OFF
		128-255	ON
CH29	Laser-B6	000-127	OFF
		128-255	ON
CH30	LaserMacro	000-010	OFF
		011-045	R
		046-080	G
		081-115	B
		116-150	R&G
		151-185	R&B
		186-220	G&B
		221-255	R&G&B
CH31	Reset / Auto	000-008	NO FUNCTION
		009-019	SHOW1
		020-030	SHOW2
		031-041	SHOW3
		042-052	SHOW4
		053-063	SHOW5
		064-074	SHOW6

		075-085	SHOW7
		086-096	SHOW8
		097-107	SHOW9
		108-118	SHOW10
		119-129	SHOW11
		130-140	SHOW12
		141-151	SHOW13
		152-162	SHOW14
		163-173	SHOW15
		174-184	SHOW16
		185-195	SHOW17
		196-206	SHOW18
		207-217	SHOW19
		218-228	SHOW20
		229-239	SHOW21
		241-250	Auto effect
		251-255	Reset
CH32	Auto program / Sound mode	000-250	Program from speed slow to fast
		251-255	Sound mode

DMX-512 connection

Connect the provided XLR cable to the male 3-pin XLR output of your controller and the other side to the female 3-pin XLR input of the light.You can chain multiple lights together through serial linking

The cable needed should be two core, screened cable with XLR input and output connectors. Please refer to the diagram below.

DMX output

XLR Mounting socket

DMX Input

XLR Mounting plug

1: Ground
2: Signal (−)
3: Signal (+)
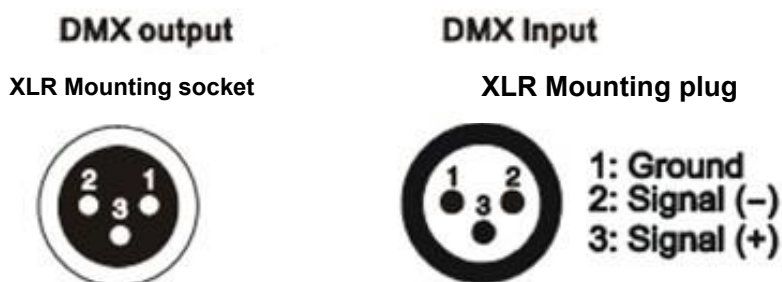
DMX address setting

Each fixture must have a specific starting address. When receiving signal transmission, fixture will receive channel control signals from DMX controller through this starting address.

According to different requirements or easy to use, the user can set many fixtures to the same address, also can set up a separately address for every device.

If more than one fixtures have the same address, all of them receive the same DMX channel signal from DMX controller. All connected fixtures are jointly controlled, DMX controller can't control a device separately.

If each device has a different address, each device will be separate and accept separate DMX512 control signal through the separate DMX address, so that more convenient to control one device separately. this method must be based on channel quantity of device to determine a starting address.

This device has 55 channels, so the first device starting address set 1, second is 56(1+55), third is 111(56+55) and so on.

| Address111 | Address 56 | Address 001 |

Troubleshooting

Following are a few common problems that may occur during operation. Here are some suggestions for easy troubleshooting:

A. The fixture does not work, no light

1. Check the connection of power and main fuse.
2. Measure the mains voltage on the main connector.

B. Not responding to DMX controller

1. DMX LED should be on. If not, check DMX connectors, cables to see if link properly.
2. If the DMX LED is on and no response to the channel, check the address settings and DMX polarity.
3. If you have intermittent DMX signal problems, check the pins on connectors or on PCB of the fixture or the previous one.
4. Try to use another DMX controller.
5. Check if the DMX cables run near or run alongside to high voltage cables that may cause damage or interference to DMX interface circuit.

Fixture Cleaning

The cleaning of internal must be carried out periodically to optimize light output. Cleaning frequency depends on the environment in which the fixture operates: damp, smoky or particularly dirty surrounding can cause greater accumulation of dirt on the fixture's optics.

- Clean with soft cloth using normal glass cleaning fluid.
- Always dry the parts carefully.
- Clean the external optics at least every 15 days. Clean the internal optics at least every 30/60 days.