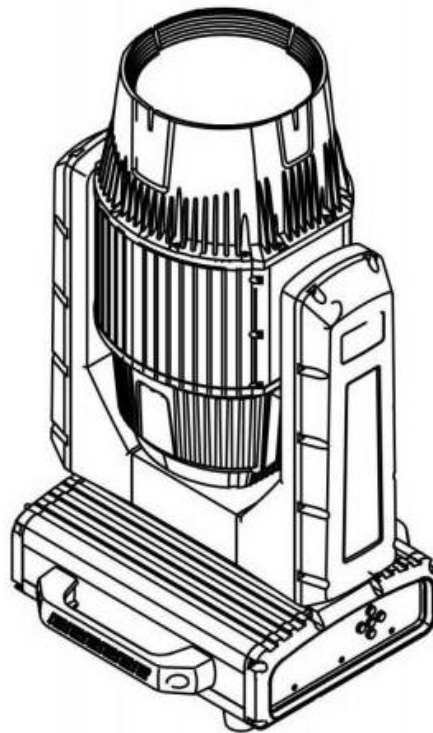# Super BEAM 480 IP
User Manual

Guangzhou Mitek Light Co.,LTD

Email: info@miteklight.com

Website: www.miteklight.com

Add: No. 21 Dongfeng Avenue, Automobile Industry Base, Huadu District, Guangzhou

TECHNICAL PARAMETERS

Light source

Wide voltage: AC100V-240V 50-60Hz

Wide voltage drive power: 700W

Lamp source: Original Philips 420W

Lens diameter: 200mm

Optical

Color temperature; 8000K

Stroboscopic; Dual motor independent stroboscopic effect, 0.5-20 times/SEC, adjustable speed

Motor: Pan/Tilt three-phase motor, so that the lamp fast and slow speed stability is high, positioning Angle is accurate!

Dimming curve: 0%-100% linear dimming, smooth and flicker-free

Beam Angle :2-5°

Controls

Channels: 17 channels

Control mode 1:DMX 512, self-walking, master and slave machine self-walking, RDM function, you can use large control

System control remote set address code.

Prism system :16 prism and (8+16+24) prism (prisms can be configured according to customer requirements) .

Display: LCD display, suitable for different installation positions, can be rotated 180°

Pan and Tilt: the use of high-precision three-phase motor, accurate positioning, smooth operation, automatic correction positioning

Pan: 540° rotation, resolution 8/16Bit, with Pan fine

Tilt: 270° rotation, resolution 8/16 bit, with Tilt fine

Effect

Color system: 13+ colorful+white, rainbow effect + atomization function

Gobo system:17 fixed Gobo +1 white

Focusing system: electronic focusing

Atomization; With atomization function, can achieve soft light effect

Construction

Waterproof rating: IP65

Heat dissipation system: Using the physical fan heat method, using the air convection system method to use software to analyze and calculate the heat flow of the lamp, quickly solve the internal heat of the body, extend the light decay time of the light source, ensure the service life of the lamp, and design a low noise heat dissipation system with excellent fan drive performance and extremely low noise .

Installation mode: upright/upside down

Dimensions

Light body size: 359*403*703mm
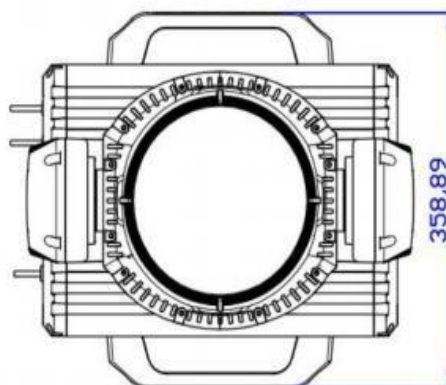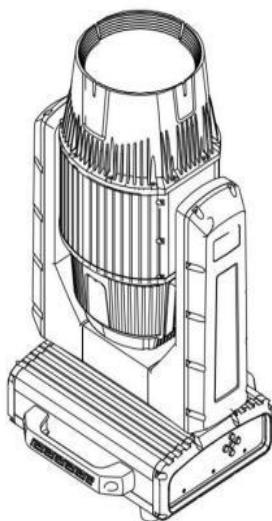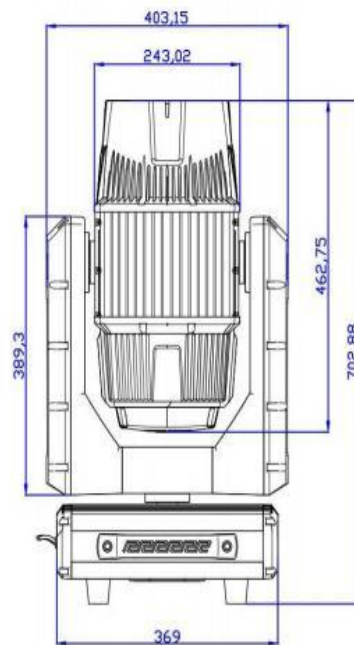
carton packing size: 54*57.5*73
Net weight: 28KG
Gross weight 30KG

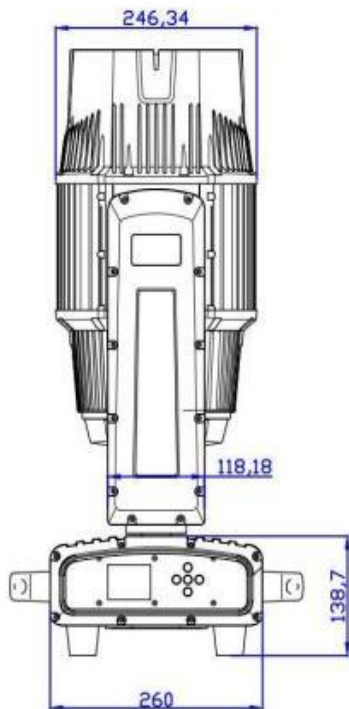## Features

Ingenuity masterpiece: high-grade appearance, huge energy, thick light column waterproof beam lamp from the optics, structure, appearance and other aspects of the performance have reached a high standard, the use of the most advanced technology high-brightness light source, optical technology and rigorous industrial design to ensure the perfect presentation of lighting design

SIZE

COLOR WHEEL

GOBO WHEEL

Chapter 1 Installation and attention

1. Maintenance

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

Intermittently using will extend this item's service life.

Please clear the fan,fan net , and optical lens in order to keep good work state.

Do not use the alcohol or any other organic solvent to wipe the shell.

2. Safety Precaution

In order to guarantee the product's life, please don't put   it in the damp places or even the environment over 60degress.

Always mount this unit in safe and stable matter.

Install or dismantle should operate by professional engineer.

Using lamp ， the change rate of power voltage should be within±10% ， If the voltage is too   high ， it will shorten the light' s life;   If it' s not enough, will influence the effect.

Please restart it 20minutes later after turning off light   , until full-cooling. Frequent switching will reduce the life span of lamps and bulbs; intermittent using will improve the life of bulbs and lamps.

In order to make sure the product is used well, please read the Manual carefully.

Use a cable conforming to specifications EIARS-485: 2-poletwisted, shielded, 120Ohm characteristic impedance, 22-24AWG, low capacity. Do not use microphone cable or other cable with characteristics differing from those specified. The end connections must be made using XLR type 3 or 5-pin male/female connectors. A terminating plug must be inserted intothe last projector witha resistance of 120Ohm (minimum 1/4W)between

terminals 2 and 3.

IMPORTANT: The wires must not make contact with each other or with the metal casing of theconnectors. The casing itself must be connected to the shield braid and to pin 1 of the connectors.
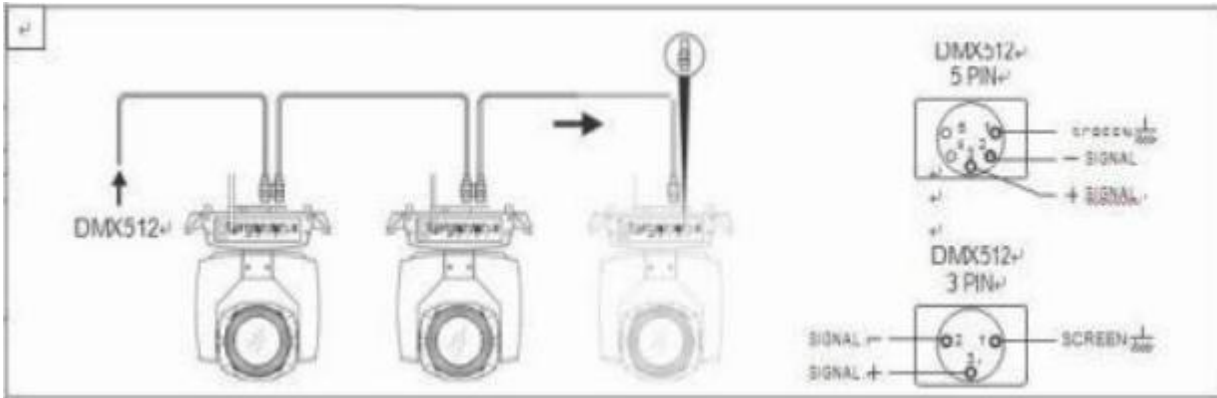
Figure 1   DMX Cable connection

Rigging (Optional)

This equipment can be positioned and fixed by clamp in every direction of the stage. Locking system makes it easy to fasten to the bracket.

Attention! Two clamps is needed to fix the equipment. Every clamp is locked by fastener of 1/4 kind. Fastener can only be locked clockwise.

Attention! Fasten a safety string to the additional hole of side aluminum piece. The secondary accessory can not hang on the delivery handle. Nip the equipment on bracket.

Check if rigging clamp (not including the one inside) damaged or not? If stand ten times weight as the equipment. Make sure the architecture can stand ten times weight as all the equipments, clamps, wirings and other additional fixtures.

Screws for clamping must be fixed firmly. Take one M12 screw (Grade 8.8 or higher) to clamp bracket, and then screw the nuts.

Level the two hanging points at the bottom of clamp. Insert fastener to the bottom, lock the two levers by 1/ 4 rotating clockwise; then install another clamp.

Install on safety string which stands at least ten times weight as equipment. Terminal of the accessory is designed for clamps.

Make sure pan/tilt lock unlocked or not. Keep the distance more than 1M from equipment to flammable material or lighting source.
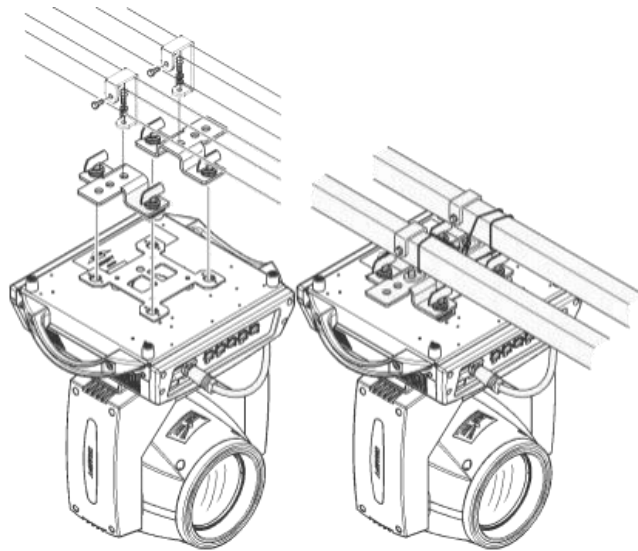
Figure 2   Installation

RDM Note

RDM is an extended version of DMX512-A protocol. It is a remote device management protocol. Traditional DMX512 protocol communication is one-way communication. The protocol is based on RS-485 bus. RS-485 is a time-sharing multi-point, half-duplex protocol. Only one port is allowed to output at the same time. So, when using RDM, we should pay attention to it. The following points:

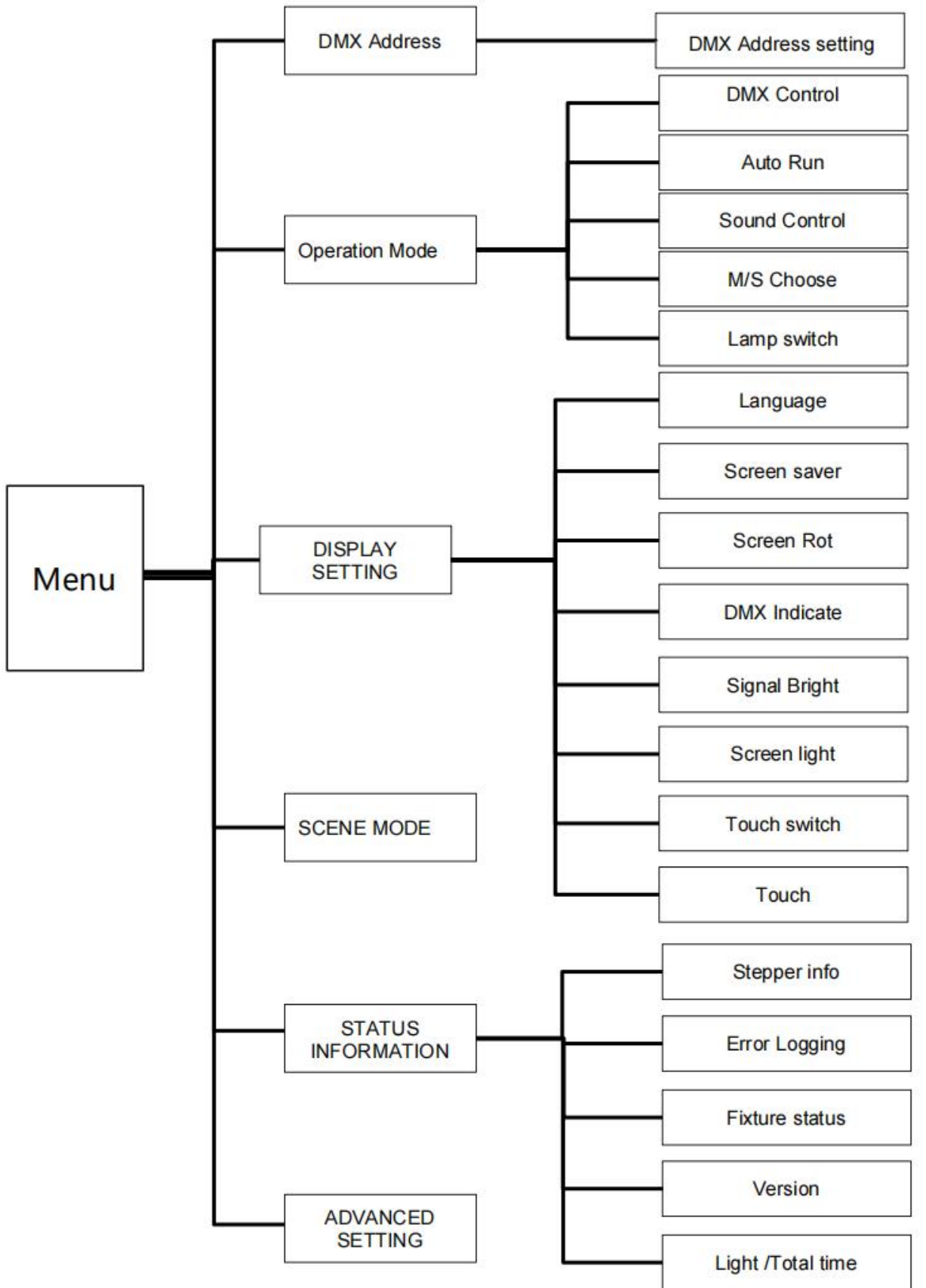To use console or host device that supports RDM host protocol.

Use bidirectional signal amplifier, traditional one-way signal amplifier is not suitable for RDM protocol, because the RMD protocol needs feedback data, the use of one-way amplifier will block the return of   data, resulting in no search fixture;

All fixture must be set to DMX mode to ensure only one host on the cable.

A 120 ohm impedance matching resistor must be inserted between terminals 2 and 3 of the terminal plug. When the signal line is longer, reducing the signal reflection will make the differential signal more stable and beneficial to the quality of communication.

When the fixture appears to accept DMX control, but can not been search by RDM host, first check the signal amplifier, and then check whether the signal line 2, 3 lines have bad contact.

Structure of menu

```
Menu
 ├── DMX Address ──────── DMX Address setting
 │
 ├── Operation Mode ──┬── DMX Control
 │                    ├── Auto Run
 │                    ├── Sound Control
 │                    ├── M/S Choose
 │                    └── Lamp switch
 │
 ├── DISPLAY SETTING ─┬── Language
 │                    ├── Screen saver
 │                    ├── Screen Rot
 │                    ├── DMX Indicate
 │                    ├── Signal Bright
 │                    ├── Screen light
 │                    ├── Touch switch
 │                    └── Touch
 │
 ├── SCENE MODE
 │
 ├── STATUS INFORMATION ─┬── Stepper info
 │                       ├── Error Logging
 │                       ├── Fixture status
 │                       ├── Version
 │                       └── Light /Total time
 │
 └── ADVANCED SETTING
```

Channel description

17CH

CH	Name	Value	Detail
1	Pan	0-255	0-540。
2	Pan Fine	0-255	0-2。
3	Tilt	0-255	0-270。
4	Tilt Fine	0-255	0-1。
5	PT Speed	0-255	Fast to slow
6	Dimmer	0-255	0-100% liner dimmer
7	Strobe	0-3	Dark
		4-103	Pulse strobe slow to fast
		104-107	Open
		108-207	Fade strobe slow to fast
		208-212	Open
		213-251	Rand strobe slow to fast
		252-255	Open
8	Color	0-4	White
		5-9	White+color1
		10-14	Color1
		15-19	Color1+Color2
		20-24	Color2
		25-29	Color2+Color3
		30-34	Color3
		35-39	Color3+Color4
		40-44	Color4
		45-49	Color4+Color5
		50-54	Color5
		55-59	Color5+Color6
		60-64	Color6
		65-69	Color6+Color7
		70-74	Color7
		75-79	Color7+Color8
		80-84	Color8
		85-89	Color8+Color9
		90-94	Color9
		95-99	Color9+Color10
		100-104	Color10
		105-109	Color10+Color11
		110-114	Color11
		115-119	Color11+Color12
		120-124	Color12
		125-129	Color12+Color13
		130-134	Color13

		135-139	Color13+Color14
		140-144	Color14
		145-149	Color14+Color15
		150-202	Rotate forward (fast to slow)
		203-255	Rotate reverse (slow to fast)
9	GOBO	0-4	White
		5-9	Gobo1
		10-14	Gobo2
		15-19	Gobo3
		20-24	Gobo4
		25-29	Gobo5
		30-34	Gobo6
		35-39	Gobo7
		40-44	Gobo8
		45-49	Gobo9
		50-54	Gobo10
		55-59	Gobo11
		60-64	Gobo12
		65-69	Gobo13
		70-74	Gobo14
		75-79	Gobo15
		80-84	Gobo16
		85-89	Gobo17
		90-128	Rotate reverse (fast to slow)
		129-131	Stop
		132-170	Rotate forward (slow to fast)
		171-175	Shake slow to fast Gobo1
		176-180	Shake slow to fast Gobo2
		181-185	Shake slow to fast Gobo3
		186-190	Shake slow to fast Gobo4
		191-195	Shake slow to fast Gobo5
		196-200	Shake slow to fast Gobo6
		201-205	Shake slow to fast Gobo7
		206-210	Shake slow to fast Gobo8
		211-215	Shake slow to fast Gobo9
		216-220	Shake slow to fast Gobo10
		221-225	Shake slow to fast Gobo11
		226-230	Shake slow to fast Gobo12
		231-235	Shake slow to fast Gobo13
		236-240	Shake slow to fast Gobo14
		241-245	Shake slow to fast Gobo15
		246-250	Shake slow to fast Gobo16
		251-255	Shake slow to fast Gobo17

10	Focus	0-255	Far to near
11	Prism1	0-127	None
		128-255	Inert prism1
12	Prism1.R	0-127	0-360。
		128-190	Rotate forward (fast to slow)
		191-192	Stop
		193-255	Rotate reverse (slow to fast)
13	Prism2	0-127	None
		128-255	Insert prism2
14	Prism2.R	0-127	0-360。
		128-190	Rotate forward (fast to slow)
		191-192	Stop
		193-255	Rotate reverse (slow to fast)
15	Frost	0-127	None
		128-191	Insert colorful
		192-255	Insert frost
16	Reset	0-25	None
		26-76	Reset Effect motor over 3 second
		77-127	Reset Pan Tilt motor over 3 second
		128-255	Reset fixture over 3 second
17	Lamp	0-25	None
		26-100	Turn off lamp over 3 second
		101-255	Turn on over 3 second

REMARK

The product has perfect performance and intergrity packing. All users should be strictly comply with the warning and operating instructions as stated.

Or we aren 't in charge of any result by misusing.

Any damage resulting by misuse is not within the Company 's warranty.

Any fault or problem caused by neglecting the manual is also not in the charge of dealers.

Errors and omissions for every information given in this manual excepted.

All information is subject to change without prior notice.