

LED BSW 300 CTO

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

Rated voltage: AC100V~240V 50 / 60Hz

Bulb specification: 300W white LED

Rated life: 20000 hours

color temperature: 9000K

Optical

Focus: DMX linear focus

Color temperature: 1 CTO color temperature: 2700-6500K.

Zoom: high-precision glass optical lens, linear magnification of 0-45 degrees

Controls

Control mode: 17 (simplified) / 20 (standard) 2 channel control modes, DMX512 , RDM

Control interface: DMX512 interface (3 core / optional 5 core), power cord hand-in-hand socket

Dormant function: using advanced technology to achieve remote dormancy function, when the lamp disconnected signal automatically enter the dormant state, make the lamp more stable and safer

Display function: 1.7-inch LCD screen, bilingual menu in Both Chinese and English, sensor fault display, temperature display

Effect

Color: 14 colors + white. Full color / half color / linear color variable speed two-way rainbow effect, built-in efficient Hall device.

Fixed Gobo: level 2 light beam adjustment.

1 fixed pattern plate: 6 kinds of patterns + 1 section of water flow effect + white , can be bidirectional variable speed rotation, built-in efficient Hall device

Rotation Gobo: 6 exquisite custom rotating glass pattern + 1 water pattern pattern, built-in efficient Hall device

Prism: 1pcs 8 prism, can be two-way variable speed rotation, with index function variable speed jitter effect

Soft light: 1 soft light mirror, 0~100% linear adjustment

Electronic strobe, 0.3~25 times / second, can choose synchronous, asynchronous random strobe

Dimming: electronic dimming 0~100% linear adjustment, with gamma curve dimming frequency 1.2K~25K adjustable, with macro instruction dimming linear stable smooth without flashing, using stable constant current drive and power supply, suitable for video shooting

Construction

Rotation Angle: XY axis is driven by high-speed silent 60 three-phase motor, with high-precision magnetic coding positioning device, make the operation positioning more accurate, when the misoperation can automatically return, horizontal and vertical speed is adjustable; XY axis rotation function and reverse function,

Horizontal 540° (16 bit precision scan), vertical 270° (16 bit precision scan)

Heat dissipation system: using high thermal conductivity copper pipe radiator, fan intelligent monitoring technology
Automatic adjust the number of fan revolutions according to the temperature of the lamp, built-in overheating protection intelligent system / intelligent temperature and noise balance module

Weight&Dimension

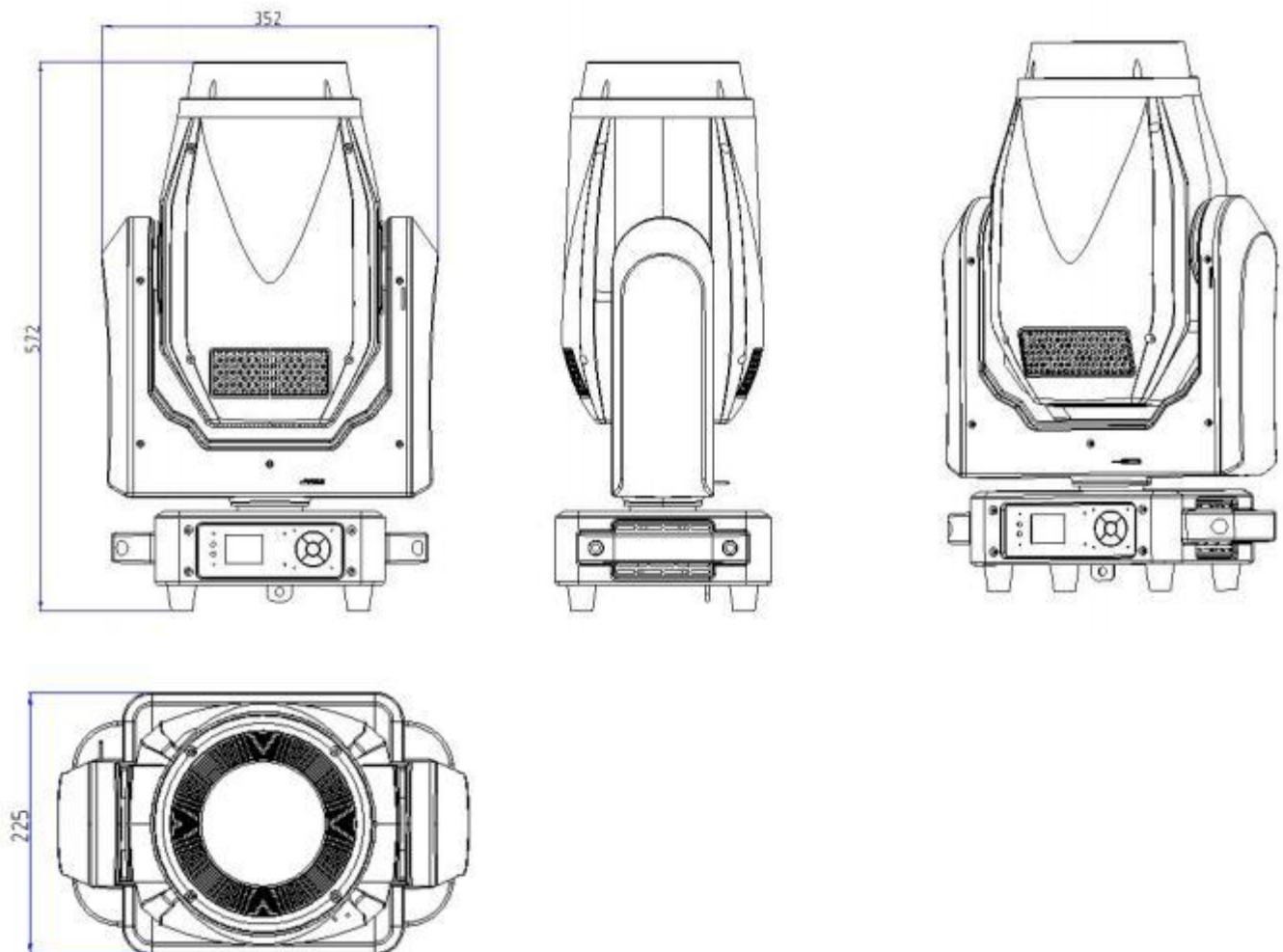
Product size:35.5*22.5*57.2CM

Package Size:64*41*30CM

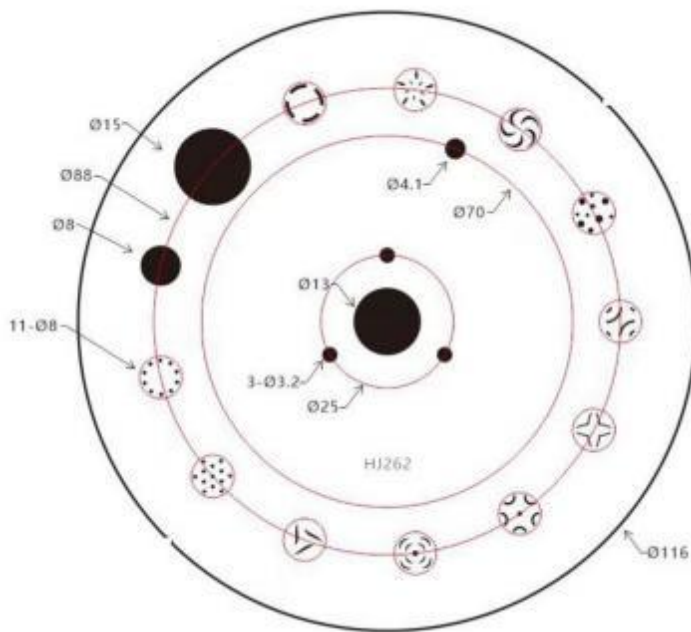
Net weight:14.6KG

Gross weight:17.1KG

SIZE DRAWING



Fixel Gobo Wheel



Rotation Gobo Wheel



Color Wheel



Installation instructions of light:

This lamp can be placed horizontally, oblique hanging and upside down, oblique hanging and upside down must pay

attention to the installation method. Fixed installation of lamps: before the positioning of lamps, ensure the stability of the installation site, the lamps must not fall off the support frame, and use the support frame and the safety rope for

auxiliary hanging; to ensure safety. Prevent the falling and sliding of the lamps and lanterns. During the installation and debugging, the pedestrians are prohibited to pass below, and regularly check whether the safety rope is worn and the hook screw is loose. If the installation of the lamp is not stable, the manufacturer will not bear any responsibility.

Menu instructions

Menu	Sublevel menu	Three-level menu / parameters
address	001 - 512	
System Setting	running mode	DMX / sound / Auto 1 / Auto2
	channel	17CH
	Horizontal reversal	Open / close
	Vertical reversal	Open / close
	Hall error correction	Open / close
	Optical coupling error correction	Open / close
	The signal to keep	Open / close
	Screen protection	Open / close
	Screen flip	Off / on / automatic
	Synchronous update	Open / close
	language	centre / EN
	factory data reset	Confirm / cancel
manual mode	Current channel mode channel	0-255
System calibration	Lighting calibration	
system reset	Effect motor reset	
	Scan the motor for reset	
	All the motor is reset	
system info	Reset the error message	Display the reset error message
	And DMX data monitoring	Channel values for the receiving console
	sensor information	Hall information
		X-light coupling information
		Y light coupling information

	Hardware version	Displays the hardware version
	software release	Displays the software version

➤ **Screen automatic rotation function**

The system can automatically rotate the screen according to the direction of gravity, without manual rotation. You can also turn off the automatic rotation function.

➤ **Manual control**

This interface is used to control the current lamps.

Press OK to enter the edit state. Press Up and Down to change the channel value. Press OK again to save the modified value, exit editing, press Exit to save the modified value, and exit editing.

➤ **system calibration**

Press OK to enter.

option	explain
initial position	After entering the sub-interface, the initial position of the X axis, Y axis, color disk, solid disk, turn disk, fog mirror, prism, focus, zoom motor can be adjusted. The adjustment range of 0~255, 127 means that there is no adjustment.
Travel calibration	After entering the sub-interface, the stroke of X-axis, Y-axis, fog mirror, prism, focusing and magnifying motor can be adjusted. The adjustment range of 0~255, 127 means that there is no adjustment.
power	After entering the subinterface, the power of the lamp bead can be adjusted, and 255 indicates the maximum power.
Other calibration	Voice control sensitivity calibration, password modification.

➤ **reset**

Press Up and Down to switch the reset mode, and press OK to reset directly.

option	explain
Effect motor reset	Effect motor reset except for XY
Scan the motor for reset	XY axis reduction
All the motor is reset	Lamps reset

option	explain
Reset information	If the red ERR indicator shines, the lamp is running wrong, and details can be viewed in the subinterface
And DMX data monitoring	This enters the subinterface to display channel values for viewing
sensor information	Real-time monitoring of the light coupling, hall and other sensors on the lamp state
Hardware version number	Lighting hardware information
Software version number	Lamp software version

CHANNEL LIST

18CH	Detail	Value	Function
1	Pan	0-255	0-540 degrees
2	Pan fine	0-255	0-2 Degrees
3	Tilt	0-255	0-270 degrees
4	Tilt fine	0-255	0-1 degrees
5	XY speed	0-255	From fast to slow
6	Dimmer	0-255	With 0-100% dimming
7	Strobe	0-3	light up
		4-99	Synchronous flash
		100-149	Pulse flash
		150-199	Flash
		200-249	Random flash
		250-255	light up
8	Color	0-8	white
		9-15	Color 1
		16-22	Color 2
		23-29	Color 3
		30-36	Color 4
		37-43	Color 5
		44-50	Color 6
		51-57	Color 7
		58-64	Color 8
		65-71	White + color 1
		72-78	Color # 1 + color # 2

		79-85	Color # 2 + color # 3
		86-92	Color # 3 + color # 4
		93-99	Color # 4 + color # # 5
		100-106	Color # 5 + color # # 6
		107-113	Color # 6 + color # 7
		114-120	Color # 7 + color # # 8
		121-127	Color 8 + white
		128-189	From fast to slow counterclockwise flow water
		190-193	Stop running water
		194-255	From slow to fast clockwise flowing water
9	Fixel Gobo	0-2	White aperture
		3-10	Pattern 1
		11-18	Pattern 2
		19-26	Pattern 3
		27-34	Pattern 4
		35-42	Pattern 5
		43-50	Pattern 6
		51-58	Pattern 7
		59-66	Pattern 8
		67-74	Pattern 9
		75-82	Pattern 10
		83-90	Pattern 11
		91-99	Pattern 1 shakes from slow to fast
		100-108	Pattern 2 shakes from slow to fast
		109-117	Pattern 3 shakes from slow to fast
		118-126	Pattern 4 shakes from slow to fast
		127-135	Pattern 5 shakes from slow to fast
		136-144	Pattern 6 shakes from slow to fast
		145-153	Pattern 7 shakes from slow to fast
		154-162	Pattern 8 shakes from slow to fast
		163-171	Pattern 9 shakes from slow to
			fast
		172-180	The tern 10 from slow to fast

		181-189	Pattern 11 shakes from slow to fast
		190-221	From fast to slow counterclockwise flow water
		222-223	Stop running water
		224-255	From slow to fast clockwise flowing water
10	Rotation Gobo	0-5	White aperture
		6-16	Pattern 1
		17-27	Pattern 2
		28-38	Pattern 3
		39-49	Pattern 4
		50-60	Pattern 5
		61-71	Pattern 6
		72-82	Pattern 7
		83-93	Pattern 8
		94-105	Pattern 1 shakes from slow to fast
		106-117	Pattern 2 shakes from slow to fast
		118-129	Pattern 3 shakes from slow to fast
		130-141	Pattern 4 shakes from slow to fast
		142-153	Pattern 5 shakes from slow to fast
		154-165	Pattern 6 shakes from slow to fast
		166-177	Pattern 7 shakes from slow to fast
		178-189	Pattern 8 shakes from slow to fast
		190-221	From fast to slow counterclockwise flow water
		222-223	Stop running water
		224-255	From slow to fast clockwise flowing water
11	Gobo rotating	0-127	0-400 degrees
		128-190	From fast to slow forward flowing water
		191-192	cease
		193-255	From slow to fast, the reverse flow of water
12	CTO	0-255	From warm to cold

13	Forst	0-127	Fog cut out
		128-255	Fog cut in
14	Prism	0-127	The prism cut out
		128-255	Prism cut in
15	Prism rotation	0-127	0-400 degrees
		128-190	From fast to slow forward flowing water
		191-192	cease
		193-255	From slow to fast, the reverse flow of water
16	Focus	0-255	From far to near
17	Zoom	0-255	grow from a small beginning into a mighty
18	Reset	0-199	of no avail
		200-205	All motors are reset over 5 seconds
		206-255	of no avail

REMARK

The product has perfect performance and integrity 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.