

User Manual

Able Spot 600 Profile



Check that the unit has not been damaged during transport



Read all cautions and warnings prior to operation of the unit

Protection Against Fire



1. Maintain a minimum of 150cm distance from any type of flame
2. Replace fuse only with the specified type and rating
3. Do not install the unit too close to a heat source
4. Make sure cables are properly secured away from unit movement
5. Maximum surface operating temperature 80°

Protection Against Electrical



1. Disconnect power before servicing
2. The unit must be earthed (electronically grounded)

Protection Against Mechanical Hazards



1. Use safety chain when hanging unit
2. Use quality clamps or bolts when positioning unit
3. Do not open unit while it is on, risk of electrical shock

Technical Information

Source

- Light Source: OSRAM SURIUS HRI 461 W bulb (7000K)
- Average Lifetime: 2,000 Hour

Power

- Input Voltage: 100-240VAC, 50/60Hz
- Power Consumption: 550W max

Optical System

- Zoom: 10° - 40° linear motorized
- Focus: Motorized focus controllable linearly
- Frost: Motorized frost controllable linearly
- Strobe: 0-20Hz variable speed, synchronization, pulse and random strobe
- Dimmer: 0-100% variable linear dimming curves

Colors

- 8 Dichoric Colors+ linear CTO from 3200K-5600K, Index / Shake / Bi-directional rotating rainbow effect
- Cyan: 0-100%, Magenta: 0-100%, Yellow: 0-100%, independent CMY mixing plate

Gobos

- 7 inter-changeable glass gobos plus open, Shake / Bi-directional rotating rainbow effect

Framing System

4 motorized framing blades able to rotate +/-90° allow to create various shaps

Prism

- 3-facet prism

Movement

Pan range: 540°, 16bit; Tilt range : 270°, 16bit

Control/Connection

- DMX Channel: 33CH
- Control Mode: DMX, Stand-Alone, Sound Control.
- Connector: True-One system with Power In+Out; 3pin DMX Input+Output

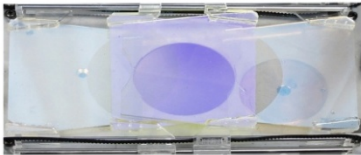
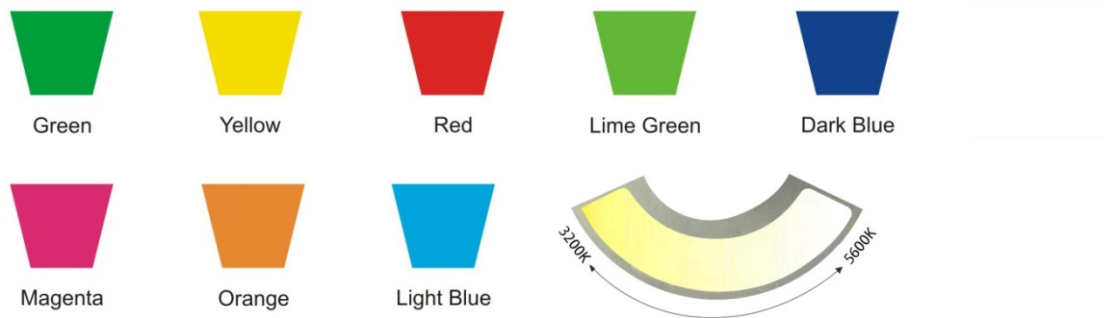
Physical

- Body Material: Aluminum+plastic housing+glass
- IP Rate: IP20

Weight/Diameter

- Net Weight: 26kg
- Dimension: 413×309×606mm

Colour



CMY SYSTEM

Rotating Gobos



Framing System



Prism Wheels





Main Power Connection

Caution!

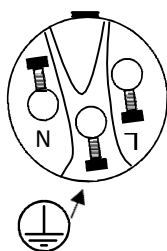
1. Do not connect fixture to a dimmer system.
2. This unit has Auto switching power supply. It will respond to 110V or 220V automatically
3. This unit must be earthed. (Electronically grounded)
4. Replace fuse only with the specified type and rating.

The occupation of the connection-cable is as follows:

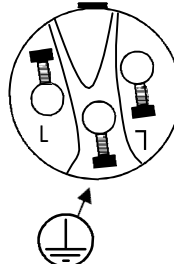
This fixture is equipped with an electronic power supply that will let the unit operate from 90V to 240V from 50Hz to 60Hz.

Cable (USA)	Cable (EU)	Pin	110V	220V
Black	Brown	Live	L	L
White	Light Blue	Neutral	N	N
Green	Yellow/Green	Ground		

110V
Connection



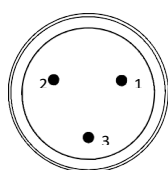
220V
Connection



DMX-512 Connection

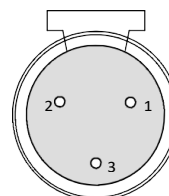
The fixture is equipped with 3 pin XLR Sockets for DMX input and output. The sockets are wired in parallel. Only use a shielded twisted pair cable designed for RS-485 and 3 pin XLR plugs and connectors in order to connect the controller with the fixture or the fixture with another.

DMX—input



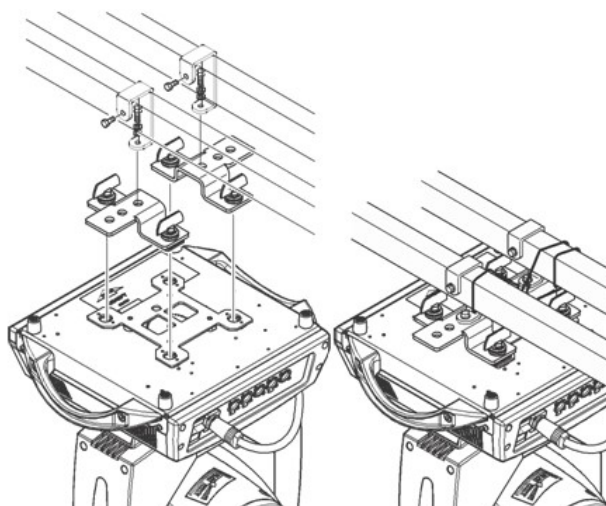
1. Shield
2. Signal (-)
3. Signal (+)

DMX—output

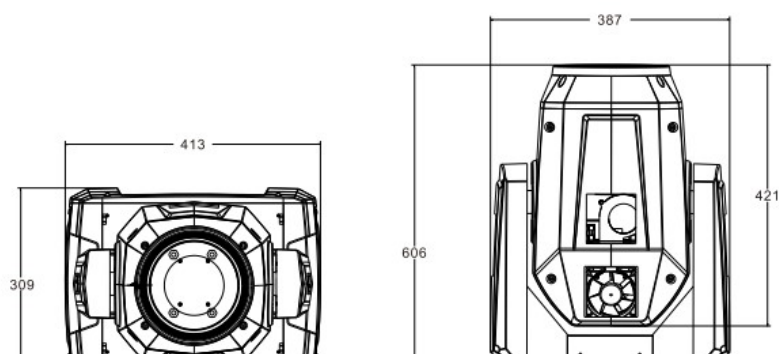


Fixture & Installation

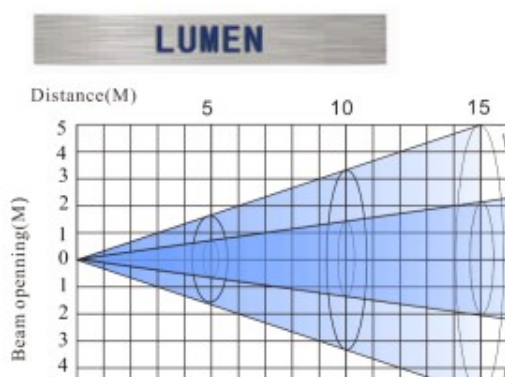
- The fixture can be mounted in any position.
- Always ensure that mounting surface can withstand 10 times the weight of the fixture.
- Always use a safety cable when mounting the fixture in any elevated position.



Dimension Drawing (431x309x606mm)

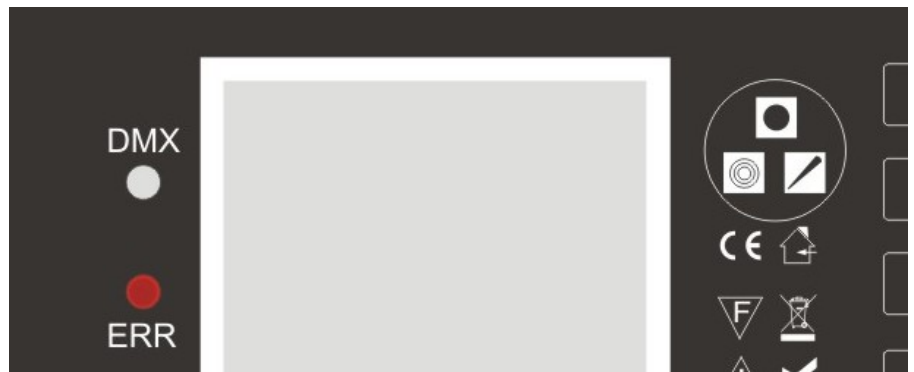


Photometric Data



Main Control

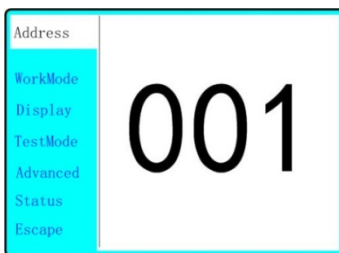
The control board on the fixture base is your interface to access and control all functions on the unit. It's Touch Screen LCD display gives you a code view of the options and functions. The following will explain each function and its options



ATTENTION! DON'T USE SHARP STUFFS TOUCH SCREEN IN ORDER NOT DAMAGE DISPLAY!



This first display let you know main menus the fixture has, the display issues existing dmx address you set. It is touch screen allows you select and confirm setting by hand touch. You are allowed to confirm DMX CABLE/AUTO RUN/LAMP STATUS quickly.



This function allows you to turn knob select desired start address from 001 to 512 , press enter to confirm setting

Address	DMX Ctrl
WorkMode	Auto Run
Display	Sound Ctrl
TestMode	M/S Choose OFF
Advanced	Light Switch OFF
Status	Lamp When Manual
Escape	Channel Qty Model

Press DMX Ctrl to set fixture work at DMX mode

Press Auto Run to run built-in programs

Press Sound Ctrl to set fixture work with sound

Press M/S Choose to set fixture be master or slave in chain

Press Light Switch ON/OFF to switch lamp

Press Manual to set lamp ON via Ch 33 at value 200-205

Press RetDone to set lamp ON after reset. Press PowerON to set lamp ON when fixture connected to power.

Address	语言	English
WorkMode	Screen Saver	Model
Display	Screen Rotate	ON
TestMode	Touch Enale	ON
Advanced	Touch Rectify	
Status		
Escape		

Press English to confirm language

Press Screen Saver to set backlight keeps ON/OFF, Model 1 is OFF, Model 2 is ON

Press Screen Rotate to invert display ON/OFF

Press Touch Enale to set screen touchable ON/OFF

Press Touch Rectify to reset screen touch rectification, this function is only for emergency

Address	01. Strobe	000
WorkMode	02. Dimmer	000
Display	03. Dimmer	000
TestMode	04. Cyan	000
Advanced	05. Magenta	000
Status	06. Yellow	000
Escape	07. CTO	000
	08. Colour	000

This function allows you control channels manually

Address	Pan Invert	OFF
WorkMode	Tilt Invert	OFF
Display	Pan Offset	010
TestMode	Tilt Offset	010
Advanced	Data hold	OFF
Status	P/T Rectify	ON
Escape	Factory Setting	
	Show Mode	ON

This function allows you to reset some functions as applications need, they are Pan Invert; Tilt Invert; Pan/Tilt fine; Pan/Tilt Sensor correction; Factory Setting; Show Mode

Address	Work Mode	DMX...
WorkMode	Address	
Display	Version	C1.2.1
TestMode	Elapse	
Advanced	Total	
Status	DMX CTO SS-REV	
Escape		

This page displays information of fixture, including: Working Mode;Address Value;Software Version; Power Time;Total Worked Time

Address	
WorkMode	
Display	
TestMode	
Advanced	
Status	
Escape	

Turn "Escape " back to main display

DMX Profile

33CH	Channel	DMX Value	Description
CH1	Strobe	0-3	Close
		4-103	Pulse Strobe Slow to Fast
		104-107	Open
		108-207	Strobe Slow to Fast
		208-212	Open
		213-251	Random Strobe Slow to Fast
		252-255	Open
CH2	Dimmer	0-255	0-100%
CH3	Dimmer Fine	0-255	0-100%
CH4	C	0-127	No function
		0-255	Cyan
CH5	M	0-127	No function
		0-255	Magenta
CH6	Y	0-127	No function
		0-255	Yellow
CH7	CTO	0-127	No function
		128-255	3200K-5600K
CH8	Color	0-7	Open
		8-15	White + Color 1
		16-31	Color 1
		32-47	Color 1 + Color 2
		48-63	Color 2
		64-79	Color 2 + Color 3
		80-95	Color 3
		96-111	Color 3 + Color 4
		112-127	Color 4
		128-143	Color 4 + Color5
		144-159	Color5
		160-175	Color5 + Color6
		176-191	Color6
		192-207	Color6 + Color7
		208-223	Color7
		224-231	Color7 + Color8
		232-239	Color8
		240-247	Color8 + CTO
		248-255	CTO

		193-255	Backward Rotation Slow to Fast
CH9	Rotating Gobo	0-9	Open
		10-19	Gobo 1
		20-29	Gobo 2
		30-39	Gobo 3
		40-49	Gobo 4
		50-59	Gobo 5
		60-69	Gobo 6
		70-79	Gobo 7
		80-89	Gobo1 Shake Slow to Fast
		90-99	Gobo2 Shake Slow to Fast
		100-109	Gobo3 Shake Slow to Fast
		110-119	Gobo4 Shake Slow to Fast
		120-129	Gobo5 Shake Slow to Fast
		130-139	Gobo6 Shake Slow to Fast
		140-149	Gobo7 Shake Slow to Fast
		150-199	Forward Rotation Fast to Slow
		200-255	Backward Rotation Slow to Fast
CH10	Gobo Rotation	0-63	0-400°
		64-126	Forward Rotation Fast to Slow
		127-128	Stop
		129-191	Backward Rotation Slow to Fast
		192-255	Forward/Backward Rotation Slow to Fast
CH11	Gobo Fine	0-255	0-100%
CH12	Left Framing A	0-255	0-100%
CH13	Left Framing B	0-255	0-100%
CH14	Right Framing A	0-255	0-100%
CH15	Right Framing B	0-255	0-100%
CH16	Top Framing A	0-255	0-100%
CH17	Top Framing B	0-255	0-100%
CH18	Down Framing A	0-255	0-100%
CH19	Down Framing B	0-255	0-100%
CH20	Framing Angle	0-255	
CH21	Iris	0-255	Far-Close
CH22	Focus	0-255	Far-Close
CH23	Focus Fine	0-255	Small-Big
CH24	Zoom	0-255	
CH25	Prism	0-10	No Function

		11-255	3-Facet Prism
CH26	Prism Rotation	0-63	0-400° Prism Fine
		64-126	Forward Rotation Fast to Slow
		127-128	Stop
		129-191	Backward Rotation Slow to Fast
		192-255	Forward/Backward Rotation Slow to Fast
CH27	Frost	0-127	No function
		128-255	Frost
CH28	Pan	0-255	0-540°
CH29	Pan Fine	0-255	0-2°
CH30	Tilt	0-255	0-270°
CH31	Tilt Fine	0-255	0-1°
CH32	Speed	0-255	Fast to Slow
CH33	Reset	0-090	No Function
		100-105	Lamp Off
		200-205	Lamp On
		240-255	Reset

Cleaning!

Due to fog residue, smoke, and dust cleaning the internal and external optical lenses must be carried out periodically to optimize light output.

1. Use normal glass cleaner and a soft cloth to wipe off the outside casing.
2. Clean the external optics with glass cleaner and a soft cloth every 20 days.
3. Always be sure to dry all parts completely before plugging the unit back in.

Cleaning frequency depends on the environment in which the unit operates (i.e. smoke, fog residue, dust, dew).

Unit not responding to DMX:

Check that the DMX cables are connected properly and are wired correctly (pin 3 is “hot”; on some other DMX devices pin 5 may be “hot”). Also, check that all cables are connected to the right connectors; it does matter which way the inputs and outputs are connected.