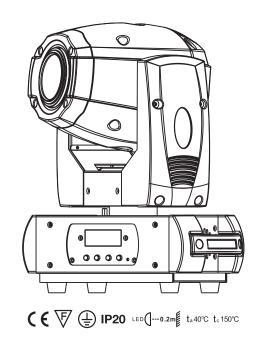


MiniSpot 600







1550 S Maple Ave, Montebello, CA 90640

Toll Free: +1 (800) 832-4647 | Phone: +1 (323) 722-3333 | Fax: +1 (323) 722-1122

WWW.EPSILON-PRO.COM | CONTACT@EPSILON-PRO.COM

1 SAFETY INSTRUCTIONS



CAUTION

Becareful with your operations. High voltage can cause a dangerous electric shock when touching wires!

This device has left the factory in perfect condition. 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.



IMPORTANT

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 problems.

If the device has been exposed to temperature changes due to environmental changes, do not switch it on immediately. The arising condensation could damage the device. Leave the device switched off until it has reached room temperature.

This device falls under protection-class I. Therefore it is essential that the device be earthed.

The electric connection must carry out by qualified person.

The device shall only be used with rate voltage and frequency.

Make sure that the available voltage is not higher than stated at the end of this manual.

Make sure the power cord is never crimped or damaged by sharp edges. If this would be the case, replacement of the cable must be done by an authorized dealer.

Always disconnect from the mains, when the device is not in use or before cleaning it. Only handle the power cord by the plug. Never pull out the plug by tugging the power cord.

During initial start-up some smoke or smell may arise. This is a normal process and does not necessarily mean that the device is defective, it should decrease gradually.

Please don't project the beam onto combustible substances.

Fixtures cannot be installed on combustible substances, keep more than 50cm distance with wall for smooth air flow, so there should be no shelter for fans and ventilation for heat radiation.

If the external flexible cable or cord of this luminaire is damaged, it shall be exclusively replaced by the manufacturer or his service agent or a similar qualified person in order to avoid a hazard.

-		

Notes

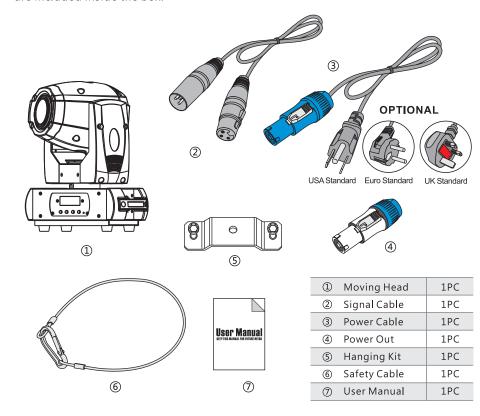
Notes

2 UNPACKING

Thank you for choosing our MiniSpot 600. For your own safety, please read this manual before installing the device. This manual covers the important information on installation and applications. Please install and operate the fixture with following instructions. Meanwhile, please keep this manual well for future needs.

The MiniSpot 600 is made of a new type of high temperature strength of engineering plastics and cast aluminum casing with nice outlook. The fixture is designed and manufactured strictly following CE standards, complying with international standard DMX512 protocol. It's available independently controlled and linkable with each other for operation. And it is applicable for large-scale live performances, theater, studio, nightclubs.

The MiniSpot 600 adopts a 50W white LED lamp which features high brightness and stability. Please carefully unpack it when you receive the fixture and check whether it is damaged during the transportation. And please check whether the following items are included inside the box:



3 FEATURES & SPECIFICATIONS

Features

- A 50W white LED lamp
- 50000 hours life span and low power consumption
- 8/16 bit smooth and precise resolution for PAN/TILT movement
- 360°/540°/630° PAN and 90°/180°/270° TILT movement
- Scan position memory, auto reposition after unexpected movement
- Specific optic system with 11.9° projection angle
- Improved optics and flat beam field
- 1 rotatable gobo wheel with 6 rotatable and interchangeable gobos plus open with speed adjustable, stream effect, dithering effect and rotatable clockwise or anticlockwise
- Gobo size 21.8mm (external dimensions)/14.5mm (inner dimensions)
- 1 color wheel with 7 colors plus open
- Variable direction rainbow effect with speed adjustable
- 2 meter to infinite electric focus
- 13-facet prism with variable speed and direction
- 0-100% linear LED dimmer
- 25T/sec high speed LED shutter/strobe effect with variable speed
- Preset variable/random strobe and dimming pulse effect
- 11/13 DMX channels USITT DMX-512
- DMX512, master-slave, and sound activated controllable or auto operation (7 built-in programs)
- DMX recorder and edit function integrated
- Red background LED display
- · Powercon connector IN
- 3-pin XLR connectors IN/OUT
- Fan cooling system
- Constant temperature readout and management function
- 45°C max ambient temperature
- IP20 protection rating
- 55dB at 3'dB rating
- 1*hanging kit

Rotating gobos











Colors













11 Returns Policy

EPSILON has taken a lot of precautions to make sure you never even have to worry about sending a defective unit back, or sending a unit in for service. But, like any complex piece of electronic equipment once in a while, something doesn't go as planned. If you find yourself with an EPSILON fixture that isn't behaving like it the fixture should, you will need to obtain a Return Merchandise Authorization also know as an RMA. Don't worry, this is easy... Just send an email to warranty@epsilon-pro.com, and we'll issue you an RMA right to your email.

When shipping your unit back to us please be sure to use a tractable prepaid a prepaid freight method; we suggest using USPS Priority, UPS, FedEx.

Make sure you carefully pack the fixture for transit, and whenever possible, use the original box & packing for shipping.

When returning your fixture for service, be sure to include the following:

- 1.) Your contact information (Name, Address, Phone Number, Email address)
- 2.) The RMA# issued to you
- 3.) A brief description of the problem / symptoms.

We will, at our discretion, repair or replace the fixture. Please remember that any shipping damage which occurs in transit to us is the customer's responsibility, so pack it well!

Shipping Issues

Any damage incurred in shipping is the responsibility of the shipper, and must be reported to the carrier immediately upon receipt of the items. Claims must be made within seven (7) days of receipt.

Contact Us

Epsilon Headquarters - Montebello, CA Mon - Fri 9 am - 5 pm PST. Office numbers: Customer Service: 1-800-832-4647 Fax: (323)-722-1122

Email: warranty@epsilon-pro.com

.12.

.03.

10 MAINTENANCE AND CLEANING

The following points have to be considered during the inspection:

- 1) All screws for installing the devices or parts of the device have to be tightly connected and must not be corroded.
- 2) There must not be any deformations on the housing, color lenses, fixations and installation spots (ceiling, suspension, trussing).
- 3) Mechanically moved parts must not show any traces of wearing and must not rotate with unbalances.
- 4) The electric power supply cables must not show any damage, material fatigue or sediments.

Further instructions depending on the installation spot and usage have to be adhered by a skilled installer and any safety problems have to be removed.



CAUTION

Disconnect from mains before starting maintenance operation.



In order to keep the lights in good condition and extend the life time, we suggest a regular cleaning.

- 1) Clean the inside and outside lens each week to avoid the weakneness of the lights due to accumulation of dust.
- 2) Clean the fan each week.
- 3) A detailed electric check by approved electrical engineer every three months, make sure that the circuit contacts are in good condition.

We recommend a frequent cleaning of the device. Please use a moist, lint- free cloth. Never use alcohol or solvents.

There are no serviceable parts inside the device. Please refer to the instructions under "Installation instructions".

Should you need any spare parts, please order genuine parts from your local dealer.

Specifications

Input Voltage: AC90-260V 50/60Hz LED Quantities: 1*50W white LED

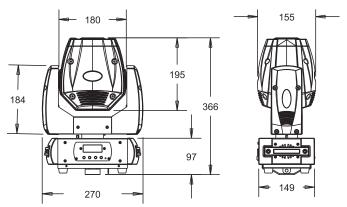
Control Signal: DMX512, master-slave and sound activated or auto operation

Control Channel: 11/13 DMX channels USITT DMX-512

Power Consumption: 55W

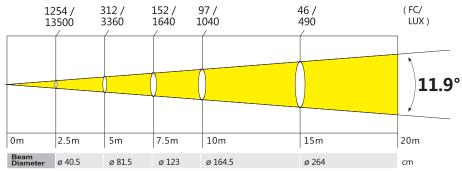
Dimensions: 149(D)*270(W)*366(H)mm **Packing Dimensions:** 350(D)*450(W)*240(H)mm

Net Weight: 6.6kg Gross Weight: 7.6kg



4 PHOTOMETRIC DATA

Photometric Beam Angle Data 11.9°Beam Angle LUX × 0.0929=FC



5 OPERATION INSTRUCTIONS

- · The MiniSpot 600 is for spot effect for on-site decoration purpose.
- Don't turn on the fixture if it's been through severe temperature difference like after transportation because it might damage the light due to the environment changes. So make sure to operate the fixture until it is in normal temperature.
- This light should be keep away from strong shaking during any transportation or movement.
- Don't pull up the light by only the head, or it might cause damages to the mechanical parts.
- Don't expose the fixture in overheat, moisture or environment with too much dust when installing it. And don't lay any power cables on the floor. Or it might cause electronic shock to the people.
- Make sure the installation place is in good safety condition before installing the fixture.
- · Make sure to put the safety chain and check whether the screws are screwed properly when installing the fixture.
- · Make sure the lens are in good condition. It's recommended to replace the units if there are any damages or severe scratch.
- · Make sure the fixture is operated by qualified personnel who knows the fixture before using.
- · Keep the original packages if any second shipment is needed.
- Don't try to change the fixtures without any instruction by the manufacturer or the appointed repairing agencies.
- It is not in warranty range if there are any malfunctions from not following the user manual to operate or any illegal operation, like shock short circuit, electronic shock, lamp broke, etc.

6 INSTALLATIONS

Cautions: For added protection mount the fixtures in areas outside walking paths, seating areas, or in areas were the fixture might be reached by unauthorized personnel.

Before mounting the fixture to any surface, make sure that the installation area can hold a minimum point load of 10 times the device's weight.

Fixture installation must always be secured with a secondary safety attachment, such as an appropriate safety cable.

9				T.		
9 7 Shutter 96-127 shutter open				32-63	Shutter open	
128-159				64-95	Strobe effect slow to fast	
160-191 shutter open 192-223 Random strobe effect slow to fast 224-255 shutter open 10	9	7	Shutter	96-127	shutter open	
192-223 Random strobe effect slow to fast				128-159	Pulse-effect in sequences slow to fast	
10 8 Dimmer 0-255 Dimmer 0%100% 11 9 Focus 0-255 In(near) to out(far) 12 10 Prism &				160-191	shutter open	
10 8				192-223	Random strobe effect slow to fast	
11 9 Focus 0-255 In(near) to out(far) 12 10 Prism & Rrotating 6-127 ON 128-255 Rrotating from slow to fast 0-19 No function 20-29 No function 30-39 No function 40-79 No function 80-84 All Motor reset 85-87 Scan motor reset 88-90 Colors motor reset 88-90 Colors motor reset 94-96 Shutter&Dimmer motor reset 100-119 Internal program 1 120-139 Internal program 2 140-159 Internal program 4 180-199 Internal program 5 200-219 Internal program 6 220-239 Internal program 7				224-255	shutter open	
10	10	8	Dimmer	0-255	Dimmer 0%100%	
Rrotating 6-127 ON 128-255 Rrotating from slow to fast 0-19 No function 20-29 No function 40-79 No function 80-84 All Motor reset 85-87 Scan motor reset 88-90 Colors motor reset 88-90 Colors motor reset 91-93 Gobo motor reset 94-96 Shutter&Dimmer motor reset 97-99 Other motor reset 100-119 Internal program 1 120-139 Internal program 2 140-159 Internal program 4 180-199 Internal program 5 200-219 Internal program 6 220-239 Internal program 7	11	9	Focus	0-255	In(near) to out(far)	
128-255 Rrotating from slow to fast	12	10	Prism &	0-5	OFF	
13			Rrotating	6-127	ON	
20-29 No function				128-255	Rrotating from slow to fast	
30-39 No function				0-19	No function	
40-79 No function				20-29	No function	
80-84 All Motor reset				30-39	No function	
85-87 Scan motor reset 88-90 Colors motor reset 91-93 Gobo motor reset 94-96 Shutter&Dimmer motor reset 97-99 Other motor reset 100-119 Internal program 1 120-139 Internal program 2 140-159 Internal program 3 160-179 Internal program 4 180-199 Internal program 5 200-219 Internal program 6 220-239 Internal program 7				40-79	No function	
13 11 Special function 91-93 Gobo motor reset 91-93 Gobo motor reset 94-96 Shutter&Dimmer motor reset 97-99 Other motor reset 100-119 Internal program 1 120-139 Internal program 2 140-159 Internal program 3 160-179 Internal program 4 180-199 Internal program 5 200-219 Internal program 6 220-239 Internal program 7				80-84	All Motor reset	
13				85-87	Scan motor reset	
function 94-96 Shutter&Dimmer motor reset 97-99 Other motor reset 100-119 Internal program 1 120-139 Internal program 2 140-159 Internal program 3 160-179 Internal program 4 180-199 Internal program 5 200-219 Internal program 6 220-239 Internal program 7				88-90	Colors motor reset	
97-99 Other motor reset 100-119 Internal program 1 120-139 Internal program 2 140-159 Internal program 3 160-179 Internal program 4 180-199 Internal program 5 200-219 Internal program 6 220-239 Internal program 7	13	11	Special	91-93	Gobo motor reset	
100-119 Internal program 1 120-139 Internal program 2 140-159 Internal program 3 160-179 Internal program 4 180-199 Internal program 5 200-219 Internal program 6 220-239 Internal program 7			function	94-96	Shutter&Dimmer motor reset	
120-139 Internal program 2 140-159 Internal program 3 160-179 Internal program 4 180-199 Internal program 5 200-219 Internal program 6 220-239 Internal program 7				97-99	Other motor reset	
140-159 Internal program 3 160-179 Internal program 4 180-199 Internal program 5 200-219 Internal program 6 220-239 Internal program 7				100-119	Internal program 1	
160-179 Internal program 4 180-199 Internal program 5 200-219 Internal program 6 220-239 Internal program 7				120-139	Internal program 2	
180-199 Internal program 5 200-219 Internal program 6 220-239 Internal program 7				140-159	Internal program 3	
200-219 Internal program 6 220-239 Internal program 7				160-179	Internal program 4	
220-239 Internal program 7				180-199	Internal program 5	
l l				200-219	Internal program 6	
240-255 Internal Sound program 1				220-239	Internal program 7	
				240-255	Internal Sound program 1	

9 DMX CHANNELS

Mode/Channel		Function	Values	Description	
16b					
1	1	Pan	0-255	PAN Movement	
2		Pan-fine	0-255	Fine control of Pan movement	
3	2	Tilt	0-255	Tilt Movement	
4		Tilt-fine	0-255	Fine control of Tilt movement	
			0-225	max to min speed	
5	3	Speed	226-235	blackout by movement	
		pan/tilt	236-245	blackout by all wheel changing	
			246-255	no function	
			0-15	Open / white	
			16-31	Color 1	
			32-47	Color 2	
			48-63	Color 3	
6	4	Color	64-79	Color 4	
		wheel	80-95	Color 5	
			96-111	Color 6	
			112-127	Color 7	
			128-189	Forwards rainbow effect from fast to slow	
			190-193	Color rotation stop	
			194-255	Backwards rainbow effect from slow to fast	
			0-9	Open	
			10-19	gobo 1	
			20-29	gobo 2 gobo 3	
			30-39		
			40-49	gobo 4	
			50-59	gobo 5	
7	5	Gobo	60-69	gobo 6	
		wheel 1	70-89	Gobo 1 shake slow to fast	
			90-109	Gobo 2 shake slow to fast	
			110-129	Gobo 3 shake slow to fast	
			130-149	Gobo 4 shake slow to fast	
			150-169	Gobo 5 shake slow to fast	
			170-189	Gobo 6 shake slow to fast	
	<u> </u>		190-255	Rot. gobo wheel cont. rotation slow to fast	
			0-3	no function	
8	6	Gobo	4-127	Forwards gobo rotation from fast to slow	
		rotation	128-131	Gobo rotation stop	
			132-255	Backwards gobo rotation from slow to fast	
			0-31	Shutter closed	

Never stand directly below the device when mounting, removing, or servicing the fixture.

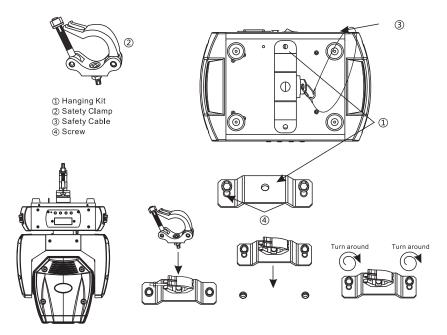
from a ceiling, or set on a flat level surface (see illustration below). Be sure this fixture is kept at least 0.5m (1.5 ft) away from any flammable materials (decoration etc.).

Always use and install the supplied safety cable as a safety measure to prevent accidental damage and/or injury in the event the clamp fails.

Mounting points: Overhead mounting requires extensive experience, including amongst others calculating working load limits, a fine knowledge of the installation material being used, and periodic safety inspection of all installation material and the fixture. If you lack these qualifications, do not attempt the installation yourself. Improper installation can result in bodily injury.

Be sure to complete all rigging and installation procedures before connecting the main power cord to the appropriate wall outlet.

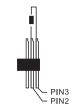
Clamp Mounting: MiniSpot 600 provides a unique mounting bracket assembly that integrates the bottom of the base, and the safety cable rigging point in one unit (see the illustration below). When mounting this fixture to truss be sure to secure an appropriately rated clamp to the included omega bracket using a M10 screw fitted through the center hole of the "Hanging Kit". As an added safety measure be sure to attached at least one properly rated safety cable to the fixture using one of the safety cable rigging point integrated in the base assembly .



Regardless of the rigging option you choose for your MiniSpot 600, always be sure to secure your fixture with a safety cable. The fixture provides a built-in rigging point for a safety cable on the hanging bracket as illustrated above. Be sure to only use the designated rigging point for the safety cable and never secure a safety cable to a carrying handle.

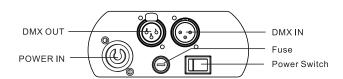
For installations where the DMX cable has to run a long distance or is in an electrically noisy environment, such as in a discotheque, it is recommended to use a DMX terminator. This helps in preventing corruption of the digital control signal by electrical noise. The DMX terminator is simply an XLR plug with a $120~\Omega$ resistor connected between pins 2 and 3, which is then plugged into the output XLR socket of the last fixture in the chain. Please see illustrations below.

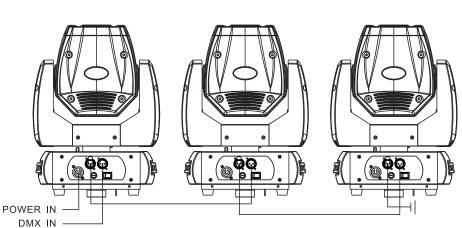


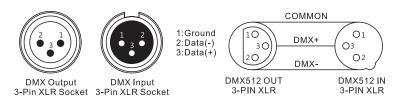


7 DMX-512 CONTROL CONNECTIONS

Connect the provided XLR cable to the female 3-pin XLR output of your controller and the other side to the male 3-pin XLR input of the moving head. You can chain multiple Moving head 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-512 connection with DMX terminator

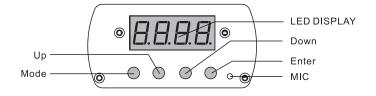






8 MENU OPERATIONS

	MODE	ADDR	VALU	A001~AXXX (AXXX)	DMX address setting
			SLAV	ON/OFF (SLAV)	Slave
		AUTO	IP1~8	ALON (AU-A)	Alone setting
				MAST (AU-M)	Master setting
		SOUN	IP1~8	ALON (SO-A)	Alone setting
				MAST (SO-M)	Master setting
	SET	MIC	M-XX		Mic sensitivity
		LODA	ON/OFF		Data reload
		VER	V-1.0~V-9.9		Software version
3		CALI	CH1	0255	Color calibration
MENU			CH2	0255	Gobo calibration
			CH3	0255	Focus calibration
	DMX	MOD1			16B mode
		MOD2			8B Mode
	REST	ON/OFF			Reset
	SIGL	S1	Not Applicable		Wired mode
		S2	Not Applicable		Wireless Mode
		S3	Not Applicable		Wireless IN and wired OUT
	TEMP	TXXX			Termperature reading
	DEGR	PAN	630/540/360		PAN angle options
		TILT	270/180/90		TILT angle options



.07.