

Spotbot LED CYM 300



USER MANUAL

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Check that the unit has not been damaged during transport



Read all cautions and warnings
prior to operation of this
equipment

Protection Against Fire



Fire

1. Maintain a minimum of one(1) foot distance from any type of flame.
3. Replace fuse only with the specified type and rating.
4. Do Not Install the unit too close to a heat source.
5. Make sure cables are properly secured away from unit movement.
6. Maximum surface operating temperature 104°.

Protection Against Electrical Damage



Electrical

1. Disconnect power before lamp replacement or servicing.
2. For connection to main power supply, proceed to page 6.
3. This unit must be earthed. (electronically grounded)
4. Do not expose unit to rain or moisture.
5. Unit must not be left on for a long period of time.

Protection Against Mechanical Hazards



Mechanical

1. Use safety chain when hanging unit.
2. Use quality clamps or bolts when positioning unit.
3. Do not open unit - risk of electrical shock.

Specifications

Part Numbers

Fixture	Lamp	Flight Case
1182 - Spotbot	LumiEngin 300W LED	CAS-1180-2

Mechanical Specifications

Pan: 540° 8/16 Bit **Tilt:** 270° 8/16 Bit
DMX Connectors: 3 and 5-pin XLR connectors
Power Connectors: Power Con Type
Thermal: Maximum ambient temperature 110° F
 Maximum surface temperature 140° F
Fastening System: 2 Quick Release Clamp Mounts

Fixture	Packaged for Shipping
Size: 17" x 10.25" x 27"	Size: 25" x 21" x 22.75"
Weight: 51.25 lb	Weight: 60 lb



Electrical Specifications

Power supply: Auto Switch 100V-240V 50/60 HZ
Power consumption: Watts: 382W
 Amps: 3.25
Ballast: Electronic
LED Type: LumiEngin 300W LED
Display: LCD Display

Electromechanical Effects

Prisms: 8-Facet overlaid prism rotating in both directions at different speeds

Dimmer: Electronic dimming

Shutter: Electronic Shutter strobe 18 flash per second

Iris: Adjustable Iris

Frost: Mechanical Frost Effect

Focus: Mechanical Focus

Gobo: Static 10+Open

Gobo 2: Rotating 7+Open bi-directional rotation

Color: Color Selection 1 Red, UV, Dark Blue
 Color Selection 2 Lime Green, Orange, Green
 Color Selection 3 4926K, 4260K, 3889K

Color Mix: C,Y,M

Communication: RDM

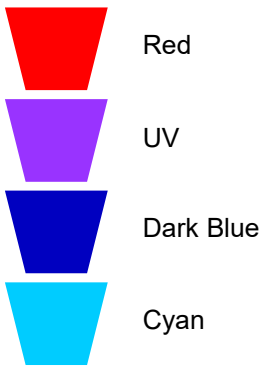
Zoom Ranges: 7°-31° Zoom Range

Photometric at 1 Meter:

CCT	5104 K
CRI	93.0
Lux	129334.0
fc	12019.9

Colors

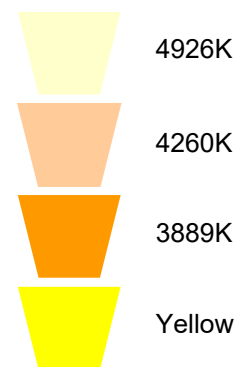
Color Selection 1



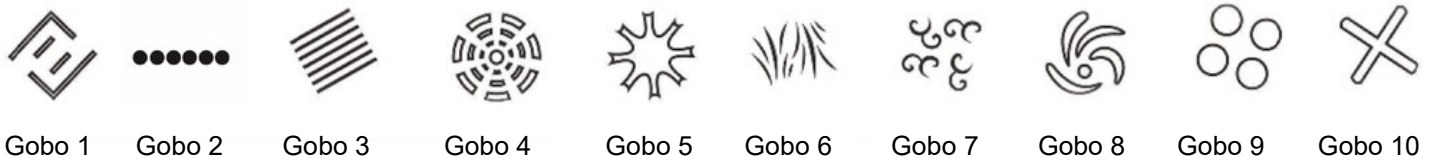
Color Selection 2



Color Selection 3



Static Gobos



Rotating Gobos

Rotating Gobo size 23mm Diameter, 20mm Image, 1mm Thick





Main Power Connection

Caution!

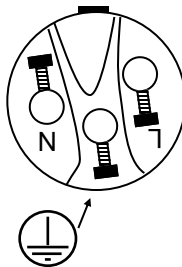
1. Do not connect fixture to a dimmer system.
2. This unit must be earthed. (electronically grounded)
3. Replace fuse only with the specified type and rating.
4. Power link maximum 4 units at 110V.

This device is equipped with an auto switching power supply that will allow you to work from 100V-240V 50/60Hz.

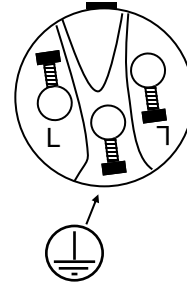
The occupation of the connection-cable is as follows:

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

110V
Connec-



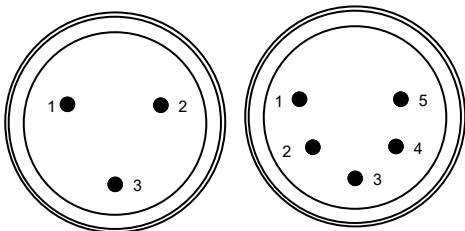
220V
Connec-



DMX-512 Connection

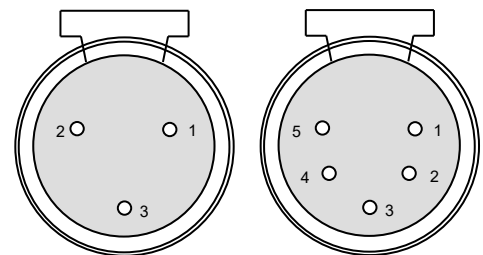
The fixture is equipped with 3 and 5 pin XLR Sockets for DMX input and output. The sockets are wired in parallel. Only use a shielded twisted pair cable designed for RS-485 and 3 or 5 pin XLR plugs and connectors in order to connect the controller with the fixture or the fixture with another.

DMX—Input



DMX—Output

1. Shield
2. Signal (-)
3. Signal (+)
4. N/A
5. N/A



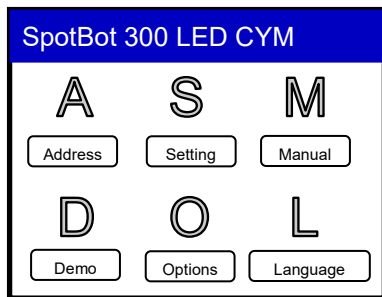
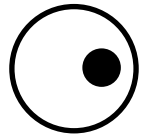
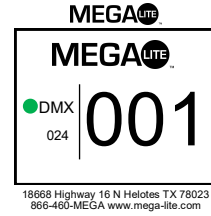
Caution!

At the last fixture, the DMX signal needs to be terminated with a terminator. Solder a 120 Ohm resistor between the (-) and the (+) signal into a 5 pin XLR plug and plug it in to the last fixture on the signal run. Pre-manufactured terminator plugs are available for purchase from your MEGA-LITE dealer (P-DMX-T).

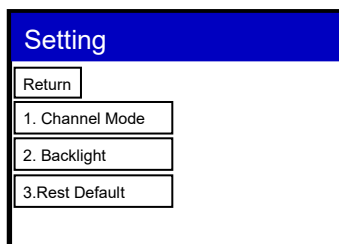
Display Control

Main Control

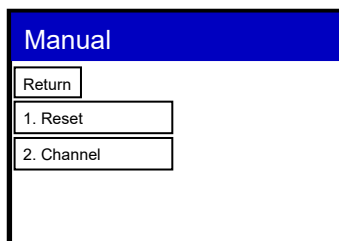
The control board on the fixture base is your interface to access and control all the functions on the unit. It's LCD display gives you a code view of the options and functions. The following will explain each function and its options.



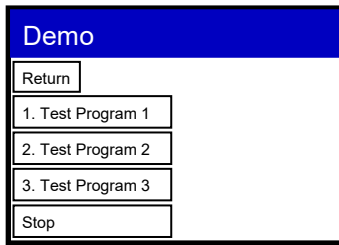
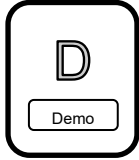
Press knob to enter. Turn knob to select DMX start channel from 001 to 512. Press enter to confirm setting.



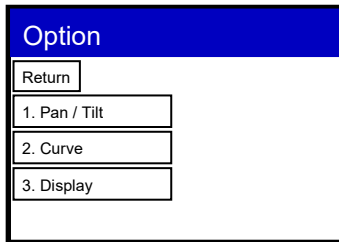
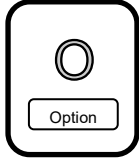
1. **Channel Mode:** Select from DMX operating mode 26 Channel or 21 Channel.
2. **Backlight:** Auto will turn off display after 30 seconds. Keep on will keep display on.
3. **Reset Default:** Will reset display function to original factory settings.



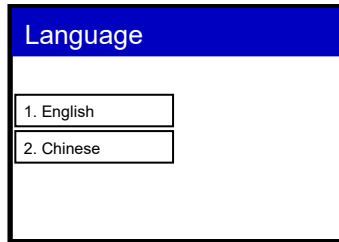
1. **Reset:**
 - A. Head Reset will reset all heads motors functions.
 - B. Pan/Tilt will reset pan and tilt motor functions.
 - C. All Reset will reset all motor functions.
2. **Channel:** Will give you manual control of each of the 19 control functions.



Demo pre-programmed chases



1. **Pan / Tilt:** Pan and Tilt invert control direction
2. **Curve:** LED Intensity dimming curve option
3. **Display:** Invert display direction



Display Language Options: English or Chinese

Rigging the fixture

Caution!

1. The installations must be carried out by an authorized dealer or trained professional.
2. Unit may cause severe injuries if you have doubts concerning the safety do not install.
3. Unit is to be 24 inches away from flammable materials (decoration material)
4. Use high quality installation equipment to hang unit.

When rigging a unit it is very important that you follow common safety procedures. Rigging requires extensive experience including but not limited to calculating working loads, material being used and periodic safety inspections. If you lack these qualifications, do not attempt the installation yourself, instead use a professional structural rigger.

When rigging the unit always be secured with a secondary safety attachment. The installation location of the projector has got to be built in the way that it can hold 10 times the weight for 1 hour with out any harming. Installation should be checked at least one time a year by a skilled person.

DMX Profile

Spotbot 26Ch Mode

DMX Channel	Function	Description	Value	Init Value
1	Pan	Pan	0-255	128
2	Pan Fine	Pan Fine	0-255	128
3	Tilt	Tilt	0-255	128
4	Tilt Fine	Tilt Fine	0-255	128
5	P/T Speed	Pan and Tilt Speed (fast to slow)	0-255	0
6	Dimmer	Dimmer off to full	0-255	255
7	Shutter	Closed	0-3	255
		Strobe (Slow to Fast)	4-103	
		Open	104-107	
		Strobe Pulse (Slow to Fast)	108-207	
		Open	208-212	
		Random Strobe (Slow to Fast)	213-251	
8	Cyan	Cyan off to full	0-255	0
9	Magenta	Magenta off to full	0-255	0
10	Yellow	Yellow off to full	0-255	0
11	Color Selection 1	Open	0-10	0
		Red	60	
		UV	125	
		Dark Blue	190	
		Cyan	255	
12	Color Selection 2	Open	0-10	0
		Line Green	60	
		Orange	125	
		Green	190	
		Magenta	255	
13	Color Selection 3	Open	0-10	0
		CTO 5600K	60	
		CTO 4200K	125	
		CTO 3200K	190	
		Yellow	255	
14	Static Gobo	Open	0-5	0
		Gobo 1	6-10	
		Gobo 2	11-15	
		Gobo 3	16-20	
		Gobo 4	21-25	
		Gobo 5	26-30	
		Gobo 6	31-35	
		Gobo 7	36-40	
		Gobo 8	41-45	
		Gobo 9	46-50	
Gobo 10	51-55			

14	Static Gobo	Gobo 1 Shake (Slow to Fast)	56-62	0
		Gobo 2 Shake (Slow to Fast)	63-69	
		Gobo 3 Shake (Slow to Fast)	70-76	
		Gobo 4 Shake (Slow to Fast)	77-83	
		Gobo 5 Shake (Slow to Fast)	84-90	
		Gobo 6 Shake (Slow to Fast)	91-97	
		Gobo 7 Shake (Slow to Fast)	98-104	
		Gobo 8 Shake (Slow to Fast)	105-111	
		Gobo 9 Shake (Slow to Fast)	112-118	
		Gobo 10 Shake (Slow to Fast)	119-125	
		Rotation Clockwise (Fast to Slow)	126-190	
		Rotation Counter Clockwise (Slow to Fast)	191-255	
		15	Rotating Gobo	
Gobo 1	8-15			
Gobo 2	16-23			
Gobo 3	24-31			
Gobo 4	32-39			
Gobo 5	40-47			
Gobo 6	48-55			
Gobo 7	56-63			
Gobo 1 Shake (Slow to Fast)	64-71			
Gobo 2 Shake (Slow to Fast)	72-79			
Gobo 3 Shake (Slow to Fast)	80-87			
Gobo 4 Shake (Slow to Fast)	88-95			
Gobo 5 Shake (Slow to Fast)	96-103			
Gobo 6 Shake (Slow to Fast)	104-111			
Gobo 7 Shake (Slow to Fast)	112-119			
Rotation Clockwise (Fast to Slow)	120-187			
Rotation Counter Clockwise (Slow to Fast)	188-255			
16	Gobo Rotation	Gobo Rotate	0-127	0
		Rotation Clockwise (Fast to Slow)	128-191	
		Rotation Counter Clockwise (Slow to Fast)	192-255	
17	Iris	Iris Open	0-127	0
		Iris Pulse Opening (Slow to Fast)	128-192	
		Iris Pulse Closing (Slow to Fast)	193-255	
18	Prism	Open	0-127	0
		Prism Engage	128-255	
19	Prism Rotation	Prism Rotation	0-127	0
		Clockwise Rotation (Slow to Fast)	128-191	
		Counter Clockwise Rotation (Slow to Fast)	192-255	
20	Frost	No Function	0-127	0
		Frost (clear to frost)	128-255	
21	Focus	Focus	0-255	110
22	Focus Fine	Focus Fine	0-255	127
23	Zoom	Zoom	0-255	127
24	Zoom Fine	Zoom Fine	0-255	127
25	Auto Focus	Auto Focus (5 Positions)	0-255	0
26	Control	No Function	0-119	0
		Pan / Tilt Reset	120-160	
		Motor Function Reset	161-200	
		All Reset	201-255	

Spotbot 21Ch Mode

DMX Channel	Function	Description	Value	Init Value
1	Pan	Pan	0-255	128
2	Tilt	Tilt	0-255	128
3	P/T Speed	Pan and Tilt Speed (fast to slow)	0-255	0
4	Dimmer	Dimmer off to full	0-255	255
5	Shutter	Closed	0-3	255
		Strobe (Slow to Fast)	4-103	
		Open	104-107	
		Strobe Pulse (Slow to Fast)	108-207	
		Open	208-212	
		Random Strobe (Slow to Fast)	213-251	
		Open	252-255	
6	Cyan	Cyan off to full	0-255	0
7	Magenta	Magenta off to full	0-255	0
8	Yellow	Yellow off to full	0-255	0
9	Color Selection 1	Open	0-10	0
		Red	60	
		Purple	125	
		Dark Blue	190	
		Cyan	255	
10	Color Selection 2	Open	0-10	0
		Line Green	60	
		Orange	125	
		Green	190	
		Magenta	255	
11	Color Selection 3	Open	0-10	0
		CTO 5600K	60	
		CTO 4200K	125	
		CTO 3200K	190	
		Yellow	255	
12	Static Gobo	Open	0-5	0
		Gobo 1	6-10	
		Gobo 2	11-15	
		Gobo 3	16-20	
		Gobo 4	21-25	
		Gobo 5	26-30	
		Gobo 6	31-35	
		Gobo 7	36-40	
		Gobo 8	41-45	
		Gobo 9	46-50	
		Gobo 10	51-55	

12	Static Gobo	Gobo 1 Shake (Slow to Fast)	56-62	0
		Gobo 2 Shake (Slow to Fast)	63-69	
		Gobo 3 Shake (Slow to Fast)	70-76	
		Gobo 4 Shake (Slow to Fast)	77-83	
		Gobo 5 Shake (Slow to Fast)	84-90	
		Gobo 6 Shake (Slow to Fast)	91-97	
		Gobo 7 Shake (Slow to Fast)	98-104	
		Gobo 8 Shake (Slow to Fast)	105-111	
		Gobo 9 Shake (Slow to Fast)	112-118	
		Gobo 10 Shake (Slow to Fast)	119-125	
		Rotation Clockwise (Fast to Slow)	126-190	
		Rotation Counter Clockwise (Slow to Fast)	191-255	
13	Rotating Gobo	Open	0-7	0
		Gobo 1	8-15	
		Gobo 2	16-23	
		Gobo 3	24-31	
		Gobo 4	32-39	
		Gobo 5	40-47	
		Gobo 6	48-55	
		Gobo 7	56-63	
		Gobo 1 Shake (Slow to Fast)	64-71	
		Gobo 2 Shake (Slow to Fast)	72-79	
		Gobo 3 Shake (Slow to Fast)	80-87	
		Gobo 4 Shake (Slow to Fast)	88-95	
		Gobo 5 Shake (Slow to Fast)	96-103	
		Gobo 6 Shake (Slow to Fast)	104-111	
		Gobo 7 Shake (Slow to Fast)	112-119	
		Rotation Clockwise (Fast to Slow)	120-187	
Rotation Counter Clockwise (Slow to Fast)	188-255			
14	Gobo Rotation	Gobo Index	0-127	0
		Rotation Clockwise (Fast to Slow)	128-191	
		Rotation Counter Clockwise (Slow to Fast)	192-255	
15	Iris	Iris Open	0-127	0
		Iris Pulse Opening (Slow to Fast)	128-192	
		Iris Pulse Closing (Slow to Fast)	193-255	
16	Prism	Open	0-127	0
		Prism Engage	128-255	
17	Prism Rotation	Prism Rotation	0-127	0
		Clockwise Rotation (Slow to Fast)	128-191	
		Counter Clockwise Rotation (Slow to Fast)	192-255	
18	Frost	No Function	0-127	0
		Frost (clear to frost)	128-255	
19	Focus	Focus	0-255	127
20	Zoom	Zoom	0-255	127
21	Control	No Function	0-119	0
		Pan / Tilt Reset	120-160	
		Motor Function Reset	161-200	
		All Reset	2021	

Cleaning and Maintenance

Installation Maintenance: The operator has to make sure that the unit is operating safely and has the installations and electronics checked by an expert every 2 years.

The following points have to be considered during the inspection:

- 1) All screws used for installing the device or part of the device have to be tightly connected and must not be corroded.
- 2) There must not be any deformations on the housing, fixation and installation spots (ceiling, suspension, trussing).
- 3) Mechanically moved parts like axles and other must not show any traces of wearing and must not rotate with unbalances.
- 4) The electronic power supply cables must not show any damages, material fatigue (e.g. porous cables) 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.

Disconnect from mains before starting maintenance operation!



Caution: Danger to life!

Electrical

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

- 1) The objective lens will require periodic cleaning on usage and environment. Environment with foggers will require more periodic cleaning as fog fluid tends to build up residues, reducing the light output.
- 2) The cooling-fans should be cleaned monthly. DO NOT blow high pressure air into fans as incorrect rotation can damage the fans operation.
- 3) The gobos, dichroic color filters and internal lenses may be cleaned with soft brush using soapy water.
- 4) The interior of the fixture should be cleaned using a vacuum.
- 5) We recommend proper lubrication of the motor wheel. The quantity of the oil must not be excessive in order to avoid oil run outs when motor wheel rotates

Note: There are no serviceable parts inside the device except for the fuse. Maintenance and service operations are to be carried out by authorized dealers.

Replacing the fuse: Only replace the fuse with the same type and rating.

Replacing the power cable: If the power cable of this device becomes damaged, it has to be replaced by authorized dealers only.

Should you have further questions, please contact your dealer.

Parts List

CAS-1180-2	2 Unit Road Case
1180-PCB-DRI	LED Driver Board
1181-LED	LED Replacement
1180-PCB-A	HEAD PCB A
1180-PCB-B	HEAD PCB B
1180-PCB-MAI	Main PCB
1180-PCB-P/T	PAN / TILT PCB
1180-SEN-PAN	PAN OR TILT Sensor
1180-MOT-PAN	Pan OR TILT Motor
1180-MOT-ZOO	ZOOM Motor
1180-FAN-LED	LED Colling Fan
1182-FAN-CYM	CYM Colling Fan

1180-FAN-BAS	Base Fan
1180-POW	Power Supply
1180-PCB-DIS	Display Board
1180-BEZ-ARM	Arm Plastic Cover
1180-BEZ-BAS	Base Front or back Cover
1180-BEZ-LEN	Lens Plastic Cover
1180-BEZ-BOD	Head Plastic Cover
1180-HOU-QUI	Quick Release Clamp Mount

Warranty Information

Warranty Conditions

-Unless otherwise stated in writing, your product is covered by a one year parts and labor limited warranty.

-LEDs are not guaranteed to match in color temperature or output.

-It is the owner's responsibility to furnish receipts or invoices for verification of purchase, date, and reseller or distributor. If purchase date cannot be provided, date of manufacture will be used to determine warranty period.

-Goods returned under warranty must follow the proper authorization procedure and must be accompanied by a copy of the original invoice.

-Goods repaired under warranty will be returned to the owner with the freight prepaid by MSI via the most economical means of shipment.

-Repair or replacement as provided for under this warranty is the exclusive remedy of the consumer. MEGA SYSTEMS INC. makes no warranties, express or implied, with respect to any product, and Mega Systems specifically disclaims any warranty of merchantability or fitness for a particular purpose. Mega Systems shall not be liable for any indirect, incidental or consequential damage, including lost profit, sustained or incurred in connection with any product or caused by product defect or the partial or total failure of any product regardless of the form of action, weather in contract, tort (including negligence), strict liability or otherwise, and weather or not such damage was foreseen or unforeseen.

- Warranty is void if the product is misused, damaged, modified in any way, or for unauthorized repairs or parts. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Customer Support

MEGA-LITE has a customer support line to provide set-up help and to answer any question should you encounter a problem. Please visit our website for any other related technical documents. For service related issues, please contact our service dept.

Monday—Friday 9am to 6pm CST

Voice: 210-684-2600

E-mail: service@mega.lighting

Specifications in this manual are subject to change.



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