

# MEGA LITE™

## AXIS BEAM 2R



## 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 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 Fire



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.

#### 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

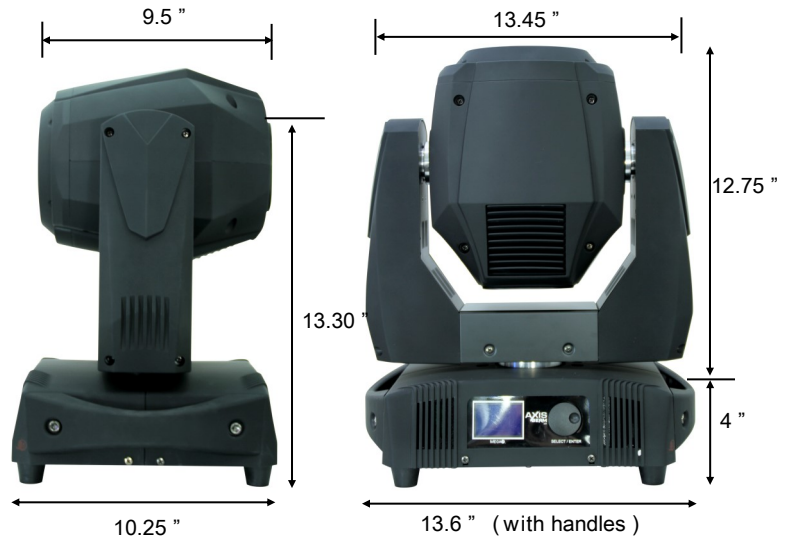
## Part Numbers

Fixture	Lamp	Flight Case	
1145 - AXIS Beam 2R	L-JEN 2R	1145-RC2 1145-RC4	Dual Road Case Quad Road Case

## Mechanical Specifications

**Pan:** 540°      **Tilt:** 270°  
**DMX Connectors:** 5-pin XLR connectors  
**Power Connectors:** Power Con Type  
**Thermal:** Maximum ambient temperature 100° F  
 Maximum surface temperature 130° F  
**Fastening System:** 2 Quick Release Clamp Mounts

Fixture	Packaged for Shipping
Size: 13.6" x 10.25" x 16.75"	Size: 18.5" x 15.75" x 22.5"
Weight: 26 lb	Weight: 30 lb



## Electrical Specifications

**Power supply:** Auto Switch 100V-240V 50/60 HZ  
**Power consumption:** Amps 1.73  
 Watts 202  
**Ballast:** Electronic  
**LAMP:** Jenbo 2R lamp  
**Display:** LCD Display

## Electromechanical Effects

**Focus:** Motorized Focus  
**Prism:** 16-Facet prism rotating in both directions at different speeds  
**Dimmer:** Dual Blade dimming  
**Shutter:** Mechanical Shutter strobe of lamp 13 flash per second  
**Color:** 13+Open bi-directional rotation  
**Gobo:** 14+Open bi-directional rotation



# Main Power Connection

## Caution!

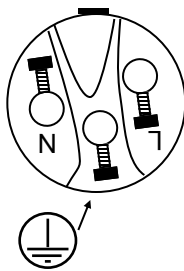
1. Do not connect fixture to a dimmer system.
2. This unit must be earthed. (electronically grounded)
3. Replace fuse only with the specified type and rating.

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

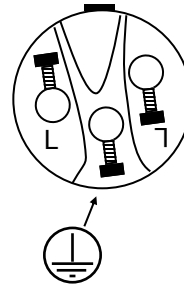
The occupation of the connection-cable is as follows:

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

110V  
Connec-



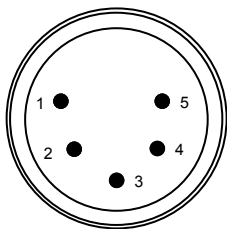
220V  
Connec-



## DMX-512 Connection

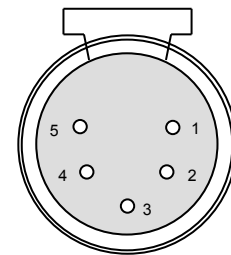
The fixture is equipped with 3 pin and 5 pin XLR Sockets for DMX input and output. The sockets are wired in parallel. Only use a shielded twisted pair cable designed for RS-485 and 3 pin or 5 pin XLR plugs and connectors in order to connect the controller with the fixture or the fixture with another.

### 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 3 pin or 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).

## 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.

# Main Control Menu

The control board on the fixture base is your interface to access and control all the functions on the unit. Its LCD display gives you views of the options and functions. The following will explain each function and its options. Turn the rotary knob to see options and press the knob to Enter



Mega-Lite -Axis Beam 2R-	Introduction
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<ol style="list-style-type: none"> <li>1 <b>Set Up</b></li> <li>2 Option</li> <li>3 Information</li> <li>4 Manual Contr</li> <li>5 Reset</li> <li>6 ESC</li> </ol>	<h2>Setup Menu</h2> <p>Press the knob to select Set Up options.</p>
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DMX Mod Auto Mod Adjust ESC	<h3>DMX Mod</h3> <p>Will allow the fixture to operate on DMX control mode. Press the knob to select this operating control</p> <h3>Auto Mod</h3> <p>The fixture will cycle the built in preprograms. Press the knob to select this operating control</p> <h3>Adjust</h3> <p>This function will allow you to control each of the 15 channel from 0 to 255. (go to page 9 to see channel Profile) Press knob to select function to control.</p> <h3>ESC</h3> <p>Press Knob to go back to previous menu.</p>
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<ol style="list-style-type: none"> <li>1 Set Up</li> <li>2 <b>Option</b></li> <li>3 Information</li> <li>4 Manual Contr</li> <li>5 Reset</li> <li>6 ESC</li> </ol>	<h2>Option Menu</h2> <p>Press the knob to select Set Up options.</p>
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Pan Tilt Display Color Lamp Language ESC	<h3>Pan</h3> <p>This function will invert the Pan direction</p> <h3>Tilt</h3> <p>This function will invert the Tilt direction</p> <h3>Display</h3> <p>This function will allow you to invert the display orientation</p> <h3>Color</h3> <p>This function will allow you to use set colors or Bi-Colors positions when controlled via DMX.</p> <h3>Lamp</h3> <p>This function allows you to turn lamp on or off via display controller. (lamp must cool to be able to restrike)</p> <h3>Language</h3> <p>Sets to display menu's operating language from English or Chinese</p> <h3>ESC</h3> <p>Press Knob to go back to previous menu.</p>
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- 1 Set Up
- 2 Option
- 3 Information**
- 4 Manual Contr
- 5 Reset
- 6 ESC

### Information Menu

Press the knob to view fixture's system information

Display System  
Lamp 00000  
Fixture 00000  
ESC

### Display System

Gives you manufacture date and software version

### Lamp

Gives you a hourly view of the life of the lamp was been turned on

### Fixture

Gives you a hourly view of the amount time the fixture has been on

### ESC

Press Knob to go back to previous menu.

- 1 Set Up
- 2 Option
- 3 Information
- 4 Manual Contr**
- 5 Reset
- 6 ESC

### Manual Control Menu

Press the knob to control the fixture's functions via display.

Pan 000  
Tilt 000  
Pan Fine 000  
Tilt Fine 000  
XY Speed 000  
Strobe 000  
Dimmer 000  
Function 000  
Color 000  
Gobo 000  
Prism Ins 000  
Prism Rot 000  
Focus 000  
Reset 000  
Lamp -Off 000  
ESC

### Manual Control

Gives you control over all the fixtures functions via display

- 1 Set Up
- 2 Option
- 3 Information
- 4 Manual Contr
- 5 Reset**
- 6 ESC

### Reset Menu

Gives you reset options for every motor control..

- 1 Set Up
- 2 Option
- 3 Information
- 4 Manual Contr
- 5 Reset
- 6 ESC**

### Escape

Previous menu..

# 001

### DMX

DMX start channel



# DMX Profile

## Axis Beam 2R 15 Ch Mode

DMX Channel	Function	Description	Value
1	Pan	Pan Course	0-255
2	Tilt	Tilt Course	0-255
3	Pan Fine	Pan Fine	0-255
4	Tilt Fine	Tilt Fine	0-255
5	Pan/Tilt Speed	Pan and Tilt Speed	0-255
6	Shutter	Closed	0-4
		Strobe (slow to fast)	5-250
		Open	251-255
7	Dimmer	Dimmer off to full	0-255
8	Auto Run	No Function	0-128
		Demo Programs (hold for 6 seconds)	129-255
9	Color	Open	0-9
		Red	10-19
		Highlite Yellow	20-35
		Dark Blue	30-39
		Green	40-49
		Orange	50-59
		Purple	60-69
		Pink	70-79
		Light Blue	80-89
		CTO	90-99
		Congo Blue	100-109
		Lime Green	110-119
		CTB	120-129
		Counter Clockwise Color Scroll (Slow to Fast)	130-191
		Clockwise Color Scroll (Slow to Fast)	192-255

10	Gobo	Open	0-4
		Gobo 1	5-9
		Gobo 2	10-14
		Gobo 3	15-19
		Gobo 4	20-24
		Gobo 5	25-29
		Gobo 6	30-34
		Gobo 7	35-39
		Gobo 8	40-44
		Gobo 9	45-49
		Gobo 10	50-54
		Gobo 11	55-59
		Gobo 12	60-64
		Gobo 13	65-69
		Gobo 14	70-71
		Clockwise Color Scroll (Fast to Slow)	72-113
		Open	114-118
		Counter Clockwise Color Scroll (Slow to Fast)	119-160
		Open	161-165
		Gobo 1 Shake (Slow to Fast)	166-172
		Gobo 2 Shake (Slow to Fast)	173-179
		Gobo 3 Shake (Slow to Fast)	180-186
		Gobo 4 Shake (Slow to Fast)	187-193
		Gobo 5 Shake (Slow to Fast)	194-200
		Gobo 6 Shake (Slow to Fast)	201-207
		Gobo 7 Shake (Slow to Fast)	208-214
		Gobo 8 Shake (Slow to Fast)	215-221
Gobo 9 Shake (Slow to Fast)	222-228		
Gobo 10 Shake (Slow to Fast)	229-235		
Gobo 11 Shake (Slow to Fast)	236-242		
Gobo 12 Shake (Slow to Fast)	243-249		
Gobo 14 Shake (Slow to Fast)	250-255		
11	Prism	No Function	0-127
		Prism Engage	128-255
12	Prism Rotation	Rotation Index	0-127
		Clockwise Prism Rotation (Slow to Fast)	128-190
		Stop	191-192
		Counter Clockwise Prism Rotation (Slow to Fast)	193-255
13	Focus	Focus	0-255
14	Reset	No Function	0-76
		Position Reset (hold for 3 seconds)	77-127
		Fixture Reset (hold for 3 seconds)	128-255
15	Lamp Control	No Function	0-25
		Lamp Off (hold for 3 seconds)	26-100
		Lamp On (hold for 3 seconds)	101-255

# 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 is 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

1145-RC2	2 Unit Road Case
1145-RC4	4 Unit Road Case
LAM--2R	Replacement Lamp Jenbo 2R
1145-BAL	Lamp Ballast
1145-PCBM	Display PCB
1145-PCBE	Effect PCB
1145-DMX5	5pin DMX Panel Mount Connector
1145-DMX3	3pin DMX Panel Mount Connector
1145-MOTP	Pan Motor
1145-MOTT	Tilt Motor
1145-MOTF	Focus Motor
1145-MOTG	Gobo Motor

1145-MOTPR	Prism Motor
1145-PCBPT	PAN/TILT PCB
1145-PS	Power Supply
1145-SEN1	Magnet Sensor
1145-SEN2	Optic Sensor
1145-FAN90	Fan 90mm
1145-FAN60	Fan 60mm
1145-FANSQ	Fan SQ60mm
1145-QR	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.

**MEGA**  <sup>TM</sup>

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