

# ***AXIS* Tri-LED**

## **User Manual**



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**MEGA** **LITE**



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.
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 90°.

#### Protection Against Fire



Electrical

1. Disconnect power before servicing.
2. For connection to main power supply proceed to page 5.
3. This unit must be earthed. (electronically grounded)
4. Do not expose unit to rain or moisture.

#### Protection Against Mechanical Hazards



Mechanical

1. Make sure head movement is not blocked.
2. Use safety chain when hanging unit
3. Unit surface may reach high temperature. Allow about 5 minutes after LED has been turned off before moving.

# Technical Features

## Part Numbers

### Fixture

1190-Axis Tri LED

### Accessories

9054-Axis Tri LED Dual Road Case

## Mechanical Specifications

- Pan:** 530°      **Tilt:** 280°
- DMX Connection:** 3-pin XLR connectors
- Power Connection:** Neutrik Power Con In & out
- Thermal:** Maximum ambient temperature 35° C  
Maximum surface temperature 80° C
- Fastening System:** 2 Pair of L-Turn locks
- Accessories:** Edison power head to Blue Power Con cable 1 meter long



Fixture	Packaged for Shipping
Size: 13.5" x 14.5" x 1"	Size: 17" x 17" x 22"
Weight: 26 lb	Weight: 30 lbs

## Electrical Specifications

- LED Quantity:** 90
- Red:** 90
- Green:** 90
- Blue:** 90
- LED Watts total each :** 3
- LED Lifetime:** 60 to 100 thousand hours
- LED Angle:** 45° ( ± 5° )
- Power Switchable:** 110V or 220V 50/60Hz
- Ballast:** Electronic
- Watts:** 247
- Amps:** 2.95

## Control & Programming

**Protocol:** DMX 512

**DMX Channels:** 12 Channels      Pan, Tilt, Pan Fine, Tilt Fine, Speed, Control, Red, Green, Blue, Macro, Dimmer


## 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 units uses a manually selectable power supply so you can manually select to operate the unit at 115V or 230V

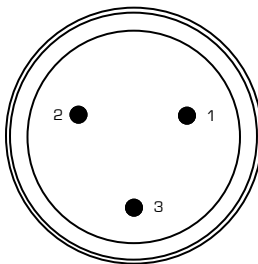
To Change power type remove base cover and select the red Switch from 115V to 230V on the power supply located at the front of the light. Unit ships from factory at 115V.

Cable (USA)	Cable (EU)	Pin	115V	230V
Brown	Brown	Live	L	L
Light Blue	Light Blue	Neutral	N	L
Yellow/Green	Yellow/Green	Pin		N

## DMX-512 Connection

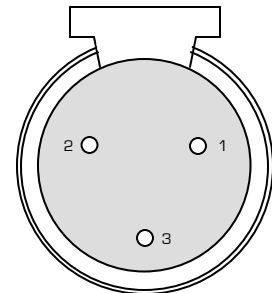
The fixture is equipped with 3 pin XLR Sockets for DMX input and output. The sockets are wired in parallel. Only use a shielded twisted pair cable designed for RS-485 and 3 pin XLR plugs and connectors in order to connect the controller with the fixture or the fixture with another.

### DMX—input



### DMX—output

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



### 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 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 (HOS-DMXT).

**Note:** After switching the unit on it will automatically detect whether DMX 512 data is received or not. There is a single red LED above the display that will flash once it is receiving DMX. If there is no DMX present the LED will not light.

## 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.

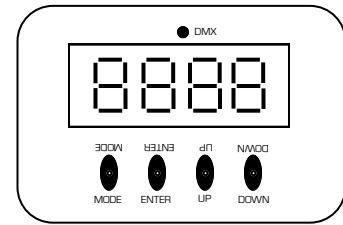
When rigging the unit always be secured with a secondary safety attachment. The installation location of the projector has got to be built in the way that it can hold 10 times the weight for 1 hour with out any harming. Installation should be checked at least one time a year by a skilled person.

Axis Tri LED DMX profile-version 1.0

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	Speed	Max speed (tracking mode)	0
		Max to min speed (vector mode)	1-244
		Changes	245-252
		Changes with pan and tilt movement	253-255
6	Control	Fan speed from fast to slow	0-127
		Reset (hold for 3 seconds)	140-150
		No Changes	151-255
7	Red LED	Red LED (0-100%)	0-255
8	Green LED	Green LED (0-100%)	0-255
9	Blue LED	Blue LED (0-100%)	0-255
10	Strobe	Strobe from slow to fast	0-255
11	Macro	Red	1-19
		Green	20-39
		Blue	40-59
		Color Fade (slow to fast)	60-79
		Color Snap (slow to fast)	80-99
		Random Color (slow to fast)	100-119
		Fast Scroll	120-139
		Red Pulse	140-159
		Green Pulse	160-179
		Blue Pulse	180-199
		Yellow Pulse	200-209
		Purple Pulse	210-219
		Aqua Pulse	220-229
White Pulse	230-255		
12	Dimmer	Dimmer from off to full	0-255

## Main Control Menu

The control board on the fixture base is your interface to access and control all the functions on the unit. Its digital display gives you a code view of the options and functions including errors and diagnostics. The following will explain each function and its options. Press Mode button to scroll through the different options.



DMX Address

AOO1

0-512

Program

rE-1

Pan Reverse

PAnY

Yes/No

Tilt Reverse

tLY

Yes/No

Demo Mode

dENn

Yes/No

Unit Reset

rStn

Yes/No

Display

dSY

Yes/No

### AOO1 DMX Address

Use the **up/down** keys to select the required DMX channel. Press **Enter** to confirm or **Mode** to exit and return to main menu. The display will flash if there is no DMX signal been received from the console. The Axis 500 uses 16 or 14 DMX channels

### rE-1 Program Version

No function this will show you what version of program you have.

### PAnY Reverse Pan

This function allows you to invert the Pan direction. Use the **up/down** keys to select, **Y** to invert pan and **N** not to invert the pan. Press **Enter** to confirm or **Mode** exit and return to the mail menu.

### tLY Reverse Tilt

This function allows you to invert the Tilt direction. Use the **up/down** keys to select, **Y** to invert tilt and **N** not to invert the tilt. Press **Enter** to confirm or **Mode** exit and return to the mail menu.

### dENn Demo Mode

This function allows you to turn on the demo mode operation. Use the **up/down** keys to select, **Y** to turn demo mode on and **N** not to turn demo mode on. Press **Enter** to confirm or **Mode** exit and return to the mail menu.

### rStn Unit Reset

This function allows you to reset the fixture. Use the **up/down** keys to select, **Y** to reset the fixture and **N** not to reset the fixture. Press **Enter** to confirm or **Mode** exit and return to the mail menu.

### dSY Display reverse

This function allows you to invert the display direction. Use the **up/down** keys to select, **Y** to invert display and **N** not to invert the display. Press **Enter** to confirm or **Mode** exit and return to the mail menu.

## 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, fans 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!**

Electrical

*Caution Danger to life!*

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 internal lenses may be cleaned with soft brush using soapy water.

**Note:** There is no serviceable parts inside the device except for the fans and 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 in order to avoid hazards.

**Should you have further questions , please contact your dealer.**

## Parts List

1190-QR	Quick Release Mount Set
1190-DISC	Display Card
1190-DMXC	DMX Card
1190-FH	Fuse Holder
1190-LEDt	Tri Chip LED
1190-MF	Medium Base Fan
1190-SF	Small Base Fan
1190-LF	Large Head Fan
1190-PCB	Main PCB Card
1000-PTSEN	Pan/Tilt Sensor
1190-PB	Pan Band

1190-PBS	Plastic Body Set
1190-PM	Pan Motor
1190-PS	Power Switch
1190-PSUP	Power Supply
1000-2SEN	Base Sensor
1190-TM	Tilt Motor
1190-TB	Tilt Band
1190-CV	Fan Voltage Converter
1190-L-15	15 Degree Lens Kit
1190-L-45	45 Degree Lens Kit
9054	Dual Road Case



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