AXIS LED
Automated Wash LED Fixture
User Manual

Contents

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 to close to a heat source.
4. Make sure cable are properly secured away from unit movement.
5. Maximum surface operating temperature 80°.

Protection Against Fire

Electrical

1. Disconnect power before servicing.
2. For connection to main power supply proceed to page 4.
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 lamp has been turned off before moving.

Technical Features

Part Numbers

Fixture

1100 - AXIS LED

Flight Case

P-1100DUALCASE

Mechanical Specifications

Pan: 360° **Tilt:** 270°

DMX Connectors: 3-pin XLR connectors

Thermal: Maximum ambient temperature 35° C
Maximum surface temperature 80° C

Mounting Points: 2 pairs of L-turn locks

Fastening System: 2 quick clamp release

Fixture	Packaged for Shipping
Size: 12.25"L x 13.5"W x 14.25"H	Size: 16.5"L x 16.5"W x 19"H
Weight: 24 lbs	Weight: 28 lbs

Electrical Specifications

LED Quantity: **54**

Red: 18
Green: 18
Blue: 18

LED Watts: 3

LED Lifetime: 60,000 - 100,000 hours

LED Angle: 32°

Power Consumption: 110V 50/60 Hz

Ballast: Electronic

Watts: 236
Amps: 2.50

Control & Programming

Protocol: DMX 512

DMX Channels: 12 Channels   Pan, Tilt, Pan Fine, Tilt Fine, Speed, Control, Red, Green, Blue, Strobe, 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.
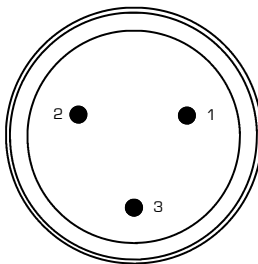
The occupation of the connection-cable is as follows:

110V 50/60hz Connection

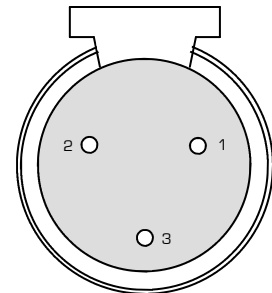| Cable (USA)	Cable (EU)	Pin	International
Brown	Brown	Live	L
Light Blue	Light Blue	Neutral	N
Yellow/Green	Yellow/Green	Pin	⏚

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 injures if you have doubts concerning the safety do not install.
3. Unit is to be 24inches 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.
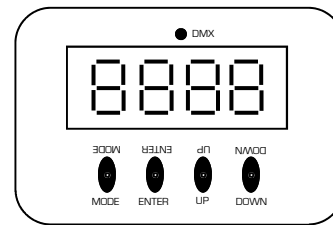
When rigging the unit always be secured with a secondary safety attachment. The installation location of the projector has got to be built in the way that it can hold 10 times the weight for 1 hour with out any harming. Installation should be checked at least one time a year by a skilled person.

Axis 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 secounds)	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	No Function	0
		Red	1-19
		Green	20-39
		Blue	40-59
		Yellow	60-79
		Purple	80-99
		Aqua	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	Programme	Pan Reverse	Tilt Reverse	Demo Mode	Unit Reset	Display
A001	rE-1	PAny	tiLY	dENn	rStn	di SY
0-512		Yes/No	Yes/No	Yes/No	Yes/No	Yes/No

A001 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 Programme Version

No function this will just 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.

tiLY 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.

di SY 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 gobos, dichroic color filters and 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

P-1100C	Quick Release Mount Set
P-1100DISC	Display Card
P-1100DMXC	DMX Card
P-1100FH	Fuse Holder
P-1100LEDb	Blue LED
P-1100LEDg	Green LED
P-1100LEDr	Red LED
P-1100LF	Large Fan
P-1100PCB	Main PCB Card
P-1100MS	Motor Sensor
P-1100PB	Pan Band

P-1100PBS	Plastic Body Set
P-1100PM	Pan Motor
P-1100PS	Power Switch
P-1100PSUP	Power Supply
P-1100RF	LED Reflector
P-1100SF	Small Fan
P-1100T	Transformer
P-1100TB	Tilt Band
P-1100TM	Tilt Motor

MEGALITE
WWW.MEGA-LITE.COM