MEGALITE™

O
BEAM
17R

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 to close to a heat source.
5. Make sure cable are properly secured away from unit movement.
6. Maximum surface operating temperature 114º.

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. Unit is IP rated 54 (do not expose unit to high pressure water or submerge fixture).

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
1300-O Beam 17R	L-YODN 17R	1300-RC2 Dual Road Case

Mechanical Specifications

Pan: 540° 8/16 Bit   **Tilt:** 270° 8/16 Bit

DMX Connectors: Cable mounted 3-pin XLR connectors

Power Connectors: Weather seal Screw Type (Screw Type to Nema 5-15 adapter included)

Thermal: Maximum ambient temperature 100° F
Maximum surface temperature 130° F

Fastening System: 2 Quick Release Clamp Mounts

Ip Rated: Ip44

Fixture	Packaged for Shipping
Size: 10.33" x 18.75" x 28.50" Weight: 64 lb	Size: 24" x 16" x 34" Weight: 76 lb

10.33 "

16 "

28.50 "

21 "

5.75 "

9.5 "

7.5 "

18.75 "   (with handles)

Electrical Specifications

Power supply: Auto Switch100V-240V 50/60 HZ

Color Temp: 8000K

Power consumption: Amps   3.65
Watts   440

Ballast: Electronic

LAMP: YODN 1 7R lamp 330W

Display: LCD Display

Electromechanical Effects

Prism: **8**-Facet prism rotating in both directions at different speeds

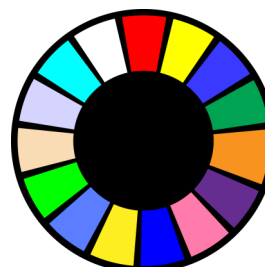**Dimmer:**   Dual Blade dimming

Shutter: Mechanical Shutter strobe of lamp 13 flash per second

Frost: Mechanical Frost Effect

Focus: Mechanical Focus

Gobo: 17+Open bi-directional rotation

Color: 14+Open bi-directional rotation
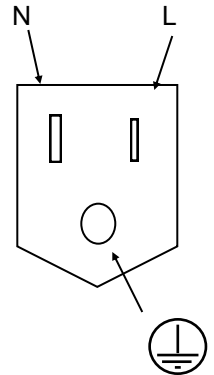
Main Power Connection

> ## 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	⏚	⏚

DMX-512 Connection

The fixture is equipped with 3 pin XLR Cable mount 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
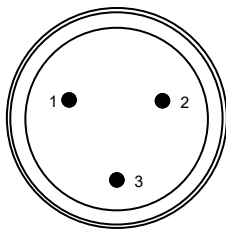
DMX—output

1. Shield
2. Signal (-)
3. Signal (+)
4. N/A
5. N/A
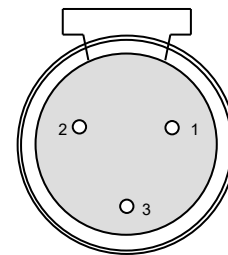
> ## Caution!
> At the last fixture the DMX signal needs to be terminated with a terminator. Solder a 120 Ohm resistor between the (-) and the (+) signal into a 3 pin XLR plug and plug it in to the last fixture on the signal run. Pre-manufactured terminator plugs are available for purchase from your Mega-Lite dealer (P-DMX-T).

Main Control

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 a code view of the options and functions. The following will explain each function and its options.
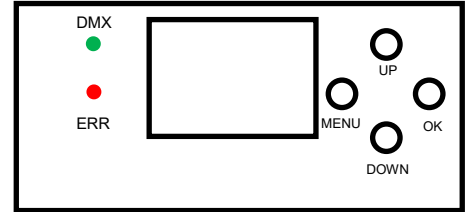
MEGA LITE	Introduction
Resetting	

MEGA LITE 中 **001** Set Manu Sys Advan	**Setup Menu** Press the ▲ and then press the **Ok** button then press ▲ to Access the setup menu

►Setting		**Run Mode**
Run Mode	DMX	
DMX Address	001	**DMX** Will operate using a DMX controller
Channel Mode	16CH	**Sound** The light will activate it's built in programs with sound activation
Demo Mode	1	**Demo** The light will run built in programs
Invert Pan	OFF	
Invert Tilt	OFF	
Swap Pan-Tilt	OFF	
Encoder Pan-Tilt	ON	
No DMX Signal	KEEP	
Display	OFF	

►Setting		**DMX Address**
Run Mode	DMX	
DMX Address	001	Press **Ok** use the ▲ or ▼ to select the desired DMX start Channel. Press **Ok** to confirm the setting. (DMX Channel must match the start
Channel Mode	16CH	Channel setting in your DMX Controller)
Demo Mode	1	
Invert Pan	OFF	
Invert Tilt	OFF	
Swap Pan-Tilt	OFF	
Encoder Pan-Tilt	ON	
No DMX Signal	KEEP	
Display	OFF	

►Setting		**Channel Mode**
Run Mode	DMX	
DMX Address	001	Only One channel option 16Ch Mode available
Channel Mode	16CH	
Demo Mode	1	
Invert Pan	OFF	
Invert Tilt	OFF	
Swap Pan-Tilt	OFF	
Encoder Pan-Tilt	ON	
No DMX Signal	KEEP	
Display	OFF	

Run Mode	DMX	**Demo Mode**
DMX Address	001	
Channel Mode	16CH	
Demo Mode	1	
Invert Tilt	OFF	Press **Ok** use the ▲ or ▼ to select the desired preprogramed demo programs. Press **Ok** to confirm the setting. There are 9 programs to
Swap Pan-Tilt	OFF	chose from
Encoder Pan-Tilt	ON	

```
Run Mode              DMX
DMX Address           001
Channel Mode          16CH
Demo Mode             1
Invert Tilt           OFF
Swap Pan-Tilt         OFF
Encoder Pan-Tilt      ON
No DMX Signal         KEEP
Display               OFF
```

Invert Pan

This function allows you to invert the Pan via display command. Press **Ok** use the ▲ or ▼ to select Pan rotation configuration. Press **OK** to confirm the setting .

```
Run Mode              DMX
DMX Address           001
Channel Mode          16CH
Demo Mode             1
Invert Tilt           OFF
Swap Pan-Tilt         OFF
Encoder Pan-Tilt      ON
No DMX Signal         KEEP
Display               OFF
```

Invert Tilt

This function allows you to invert the Tilt via display command. Press **Ok** use the ▲ or ▼ to select Tilt rotation configuration. Press **Ok** to confirm the setting .

```
Run Mode              DMX
DMX Address           001
Channel Mode          16CH
Demo Mode             1
Invert Tilt           OFF
Swap Pan-Tilt         OFF
Encoder Pan-Tilt      ON
No DMX Signal         KEEP
Display               OFF
```

Swap Pan-Tilt

This function will Swap the Pan Tilt channel on DMX control via display command. Press **Ok** use the ▲ or ▼ to select Swap the DMC channels for the Pan & Tilt Press **Ok** to confirm the setting .
 CH 1&2 Pan CH 3&4 Tilt =**OFF**
 CH 1&2 Tilt CH 3&4 Pan =**ON**

```
Run Mode              DMX
DMX Address           001
Channel Mode          16CH
Demo Mode             1
Invert Tilt           OFF
Swap Pan-Tilt         OFF
Encoder Pan-Tilt      ON
No DMX Signal         KEEP
Display               OFF
```

Encoder Pan-Tilt

This function will allow you to enable or disable the encoders for the Pan and Tilt. Press **Ok** use the ▲ or ▼ to select **ON** or **OFF** Press **Ok** to confirm the setting .

 (note) encoders are electronics that will reposition the unit if it's manually moved.

```
Run Mode              DMX
DMX Address           001
Channel Mode          16CH
Demo Mode             1
Invert Tilt           OFF
Swap Pan-Tilt         OFF
Encoder Pan-Tilt      ON
No DMX Signal         KEEP
Display               OFF
```

No DMX Signal

If DMX signal is removed or terminated the fixture will keep the last command or it will clear the command and place the fixture at 0 on all channels. Press **Ok** use the ▲ or ▼ to select **KEEP** or **CLEAR** Press **Ok** to confirm the setting .

```
Run Mode              DMX
DMX Address           001
Channel Mode          16CH
Demo Mode             1
Invert Tilt           OFF
Swap Pan-Tilt         OFF
Encoder Pan-Tilt      ON
No DMX Signal         KEEP
Display               OFF
```

Display Power Save

This command will allow you to select to leave the display permanently on when the fixture is on, or it will let you turn off the display after 30 seconds of not pressing the buttons. Press **Ok** use the ▲ or ▼ to select **OFF** or **ON** Press **Ok** to confirm the setting .

```
Lamp on@Starting      ON
Linear Color          OFF
Load Default          ▶
```

Lamp On @ Starting

This command will allow you to select whether the lamp will turn on after it receives power **or** to turn on the lamp only when it receives a DMX command to do so. Press **Ok** use the ▲ or ▼ to select **OFF** or **ON** Press **Ok** to confirm the setting .

```
Lamp on@Starting      ON
Linear Color          OFF
Load Default          ▶
```

Linear Color

This function will allow you to select whether the colors wheel will snap into color and bi-color **or** a continues control over any position of the color wheel. Press **Ok** use the ▲ or ▼ to select **OFF** or **ON** Press **Ok** to confirm the setting .

```
Lamp on@Starting      ON
Linear Color          OFF
Load Default          ▶
```

Load Default

This command will change the display command back to original factory settings. Press **Ok** then press **Ok** again to load to factory settings use the ▲ or ▼ to cancel.

DMX Profile

DMX	Function	Description	Value	Init Value
1	Color	Open	0-4	0
		White / Red	5-9	
		Red	10-14	
		Red / Orange	15-19	
		Orange	20-24	
		Orange / Aquamarine	25-29	
		Aquamarine	30-34	
		Aquamarine / Green	35-39	
		Green	40-44	
		Green / Lime Yellow	45-49	
		Lime Yellow	50-54	
		Lime Yellow / Lavender	55-59	
		Lavender	60-64	
		Lavender / Pink	65-69	
		Pink	70-74	
		Pink / Yellow	75-79	
		Yellow	80-84	
		Yellow / Magenta	85-89	
		Magenta	90-94	
		Magenta / Cyan	95-99	
		Cyan	100-104	
		Cyan / CTO 260	105-109	
		CTO 260	110-114	
		CTO 260 / CTO 190	115-119	
		CTO 190	120-124	
		CTO 190 / CTB 8000	125-129	
		CTB 8000	130-134	
		CTB 8000 / Blue	135-139	
		Blue	140-144	
		Blue / White	145-149	
		Color Rotation (Slow to Fast)	128-255	
2	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	
3	Dimmer	Dimmer off to full	0-255	255

		Open	0-3	
		Gobo 1	4-9	
		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	70-74	
		Gobo 15	75-79	
		Gobo 16	80-84	
		Gobo 17	85-89	
4	Gobo	Counter Clockwise Color Scroll (Fast to Slow)	90-129	0
		Open	130-134	
		Clockwise Color Scroll (Slow to Fast)	135-170	
		Gobo 1 Shake (Slow to Fast)	171-175	
		Gobo 2 Shake (Slow to Fast)	176-180	
		Gobo 3 Shake (Slow to Fast)	181-185	
		Gobo 4 Shake (Slow to Fast)	186-190	
		Gobo 5 Shake (Slow to Fast)	191-195	
		Gobo 6 Shake (Slow to Fast)	196-200	
		Gobo 7 Shake (Slow to Fast)	201-205	
		Gobo 8 Shake (Slow to Fast)	206-210	
		Gobo 9 Shake (Slow to Fast)	211-215	
		Gobo 10 Shake (Slow to Fast)	216-220	
		Gobo 11 Shake (Slow to Fast)	221-225	
		Gobo 12 Shake (Slow to Fast)	226-230	
		Gobo 13 Shake (Slow to Fast)	231-235	
		Gobo 14 Shake (Slow to Fast)	236-240	
		Gobo 15 Shake (Slow to Fast)	241-245	
		Gobo 16 Shake (Slow to Fast)	246-250	
		Gobo 17 Shake (Slow to Fast)	251-255	
5	Prism	No Function	0-127	0
		Prism Engage	128-255	
6	Prism Rota-	No Function	0-1	0
		Prism Rotation	2-127	
		Counter Clockwise Prism Rotation (Fast to Slow)	128-190	
		Stop	191-192	
		Clockwise Prism Rotation (Slow to Fast)	193-255	

7	No Function	No Function	0-255	0
8	Frost	No Function	0-127	0
		Frost (clear to frost)	128-255	
9	Focus	Focus	0-255	0
10	Pan	Pan Course	0-255	128
11	Pan Fine	Pan Fine	0-255	128
12	Tilt	Tilt Course	0-255	128
13	Tilt Fine	Tilt Fine	0-255	128
14	Pan & Tilt Speed	Pan & Tilt Speed (Fast to Slow)	0-255	0
15	Reset	No Function	0-26	0
		Lamp Reset	26-76	
		Pan Tilt Reset	]77-127	
		All Reset	128-255	
16	Lamp Control	No Function	0-9	0
		Lamp OFF (hold for 3 seconds)	10-100	
		Lamp ON (hold for 3 seconds)	101-255	

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.

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

1300-RC2	2 Unit Road Case		1300-MOTPR	Prism Motor
1300-LDRI	Lamp Driver Board		1300-PBEL	Pan Belt
L-YOD17R	Replacement Lamp YODN 17R		1300-PS	Power Supply
1300-FAN	Rear Fan		1300-SEN1	Magnet Sensor
1300-PCBD	Display PCB		1300-SEN2	Optic Sensor
1300-PCBM	Main PCB		1300-QR	Quick Release Clamp Mount
1300-MOTP	Pan Motor		1300-HAN	Handel
1300-MOTT	Tilt Motor		1300-LENF	Front Lens
1300-MOTF	Focus Motor			
1300-MOTG	Gobo Motor			

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.

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