

MEGA^{LITE}™

DRAMA
FS-LED 900



USER MANUAL

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Check that the unit has not been damaged during transport



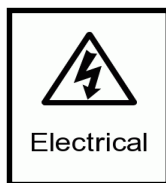
Read all cautions and warnings
prior to operation of this
equipment

Protection Against Fire



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
6. Maximum surface operating temperature 140°.

Protection Against Electrical Fire



1. Disconnect power before servicing.
2. For connection to main power supply proceed to page 7.
3. This unit must be earthed. (electronically grounded)
4. This fixture must not be left on for long periods of time.

Protection Against Mechanical Hazards



1. Use safety chain when hanging unit.
2. Use quality clamps or bolts when positioning unit
3. Do not open unit while it is on, risk of electrical shock.

Technical Information

Part Numbers

Fixture

7048-Drama FS LED 900

Mechanical Specifications

DMX Connectors:	3 and 5-pin XLR connectors in/out
Power Connections:	Panel mount Power Con type in/out connection (Nema 5-15 to Blue power con type cable included)
Thermal:	Maximum ambient temperature 40° C Maximum surface temperature 60° C
Display:	Digital
Fastening System:	Mounting joke for stand (black diecast aluminum stand included)
Zoom Angle:	8° to 13°
Color:	5 Color Wheel with Fader and DMX Control
CTO:	3 CTO Filters 4353k, 4997k, and 5062k with Fader and DMX Control
Focus:	Mechanical Focus with Fader and DMX Control
Iris:	Mechanical Iris with Fader and DMX Control
Dimmer:	Electronic Dimmer with Fader and DMX Control
Shutter:	Electronic Shutter with DMX Control only

Electrical Specifications

LED Type:	350W COB LED
CRI:	91.1>
CCT:	5080K on Open
LED Lifetime:	*60,000 to 100,000 hours
Power Consumption:	Universal 100 - 240V 50/60 Hz
Ballast:	Electronic
Watts:	490W
Amps:	4.20

Control & Programming

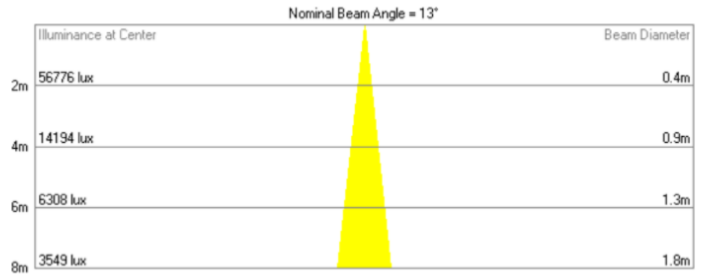
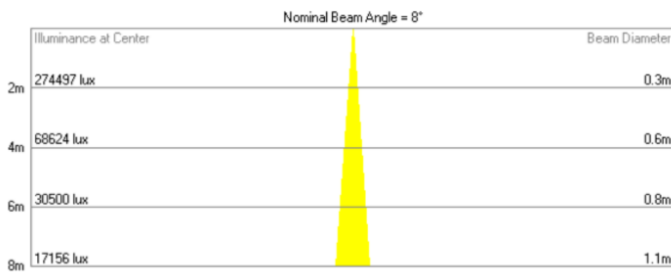
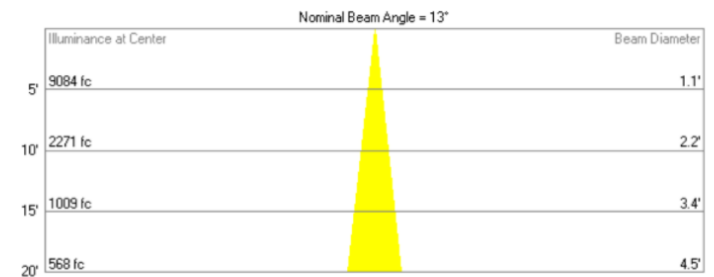
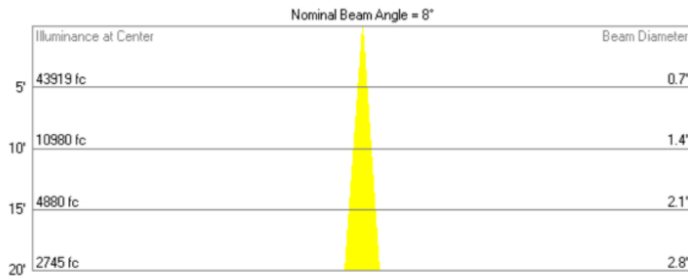
Protocol:	DMX 512
DMX Channels:	7 Channel Dimmer, Strobe, Iris, Color, CTO, Focus, Zoom
Operating Mode:	Rail Mounted Controller (included) DMX Controlled

*average

Photometrics

Output at full

	Lumens at full output	Efficacy
Narrow Angle	21,271	49 lm/W
Wide Angle	5,441	13 lm/W



Color Rendering - Open White - NARROW

CCT: 14671K

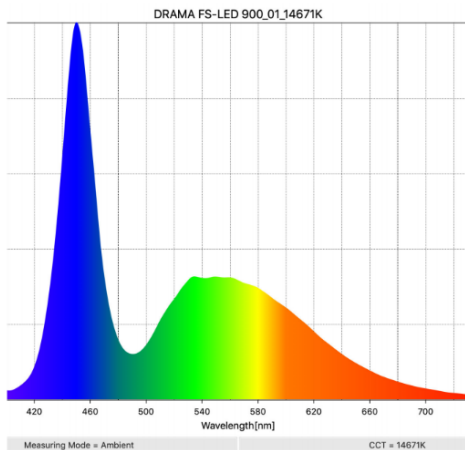
Duv: -0.0101

CRI (Ra): 80

TM-30 (Rf): 70

TM-30 (Rg): 95

Spectrum



Color Rendering - CTO #1 - WIDE

CCT: 10256K

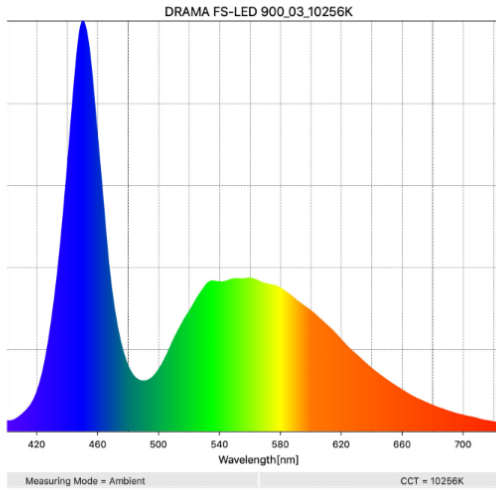
Duv: -0.0107

CRI (Ra): 81

TM-30 (Rf): 71

TM-30 (Rg): 96

Spectrum



Color Rendering - CTO #2 - WIDE

CCT: 6218K

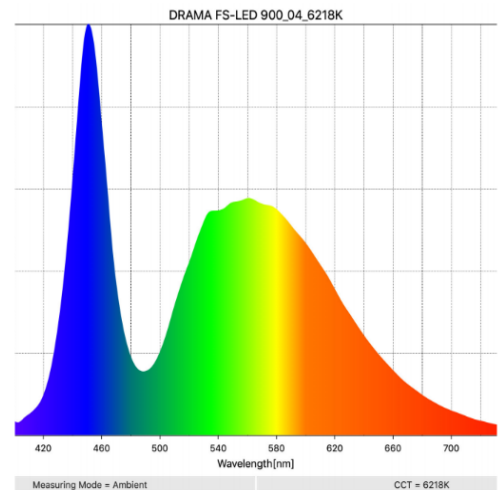
Duv: -0.0010

CRI (Ra): 76

TM-30 (Rf): 72

TM-30 (Rg): 94

Spectrum



Color Rendering - CTO #3 - WIDE

CCT: 3901K

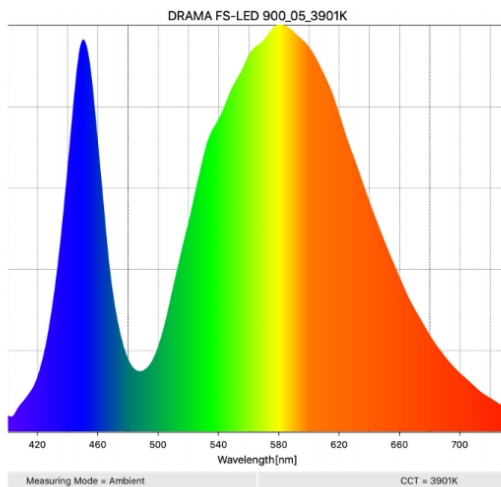
Duv: -0.0038

CRI (Ra): 73

TM-30 (Rf): 70

TM-30 (Rg): 95

Spectrum





Main Power Connection

Caution!

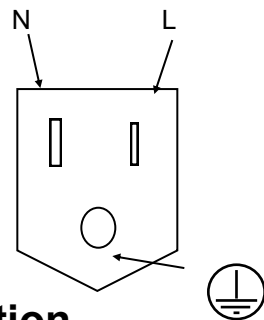
1. Do not connect fixture to a dimmer system.
2. This unit has Auto switching power supply. It will respond to 110V or 220V automatically
3. This unit must be earthed. (electronically grounded)
4. Replace fuse only with the specified type and rating.
5. Power link only 3 units @110V or 6 units @ 220V

The occupation of the connection-cable is as follows:

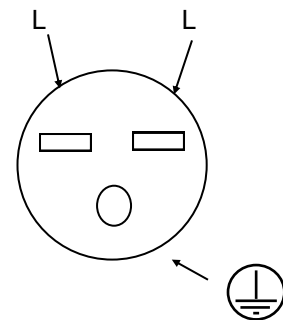
This fixture is equipped with an electronic power supply that will let the unit operate from 100V to 240V from 50Hz to 60Hz

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

110V—Connection



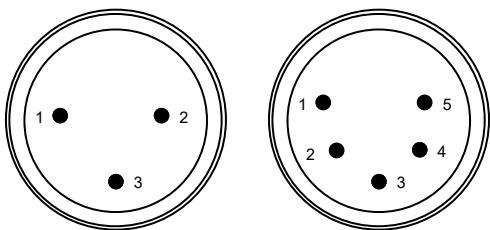
220V—Connection



DMX-512 Connection

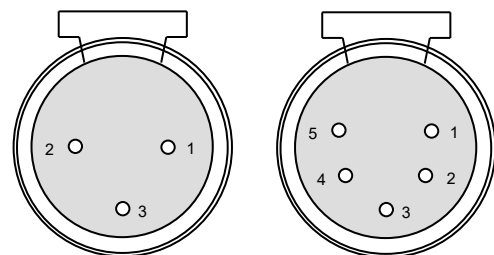
The fixture is equipped with 5 pin XLR cable mounted sockets for DMX input and output. The sockets are wired in parallel. Only use a shielded twisted pair cable designed for RS-485 and 5 pin XLR plugs and connectors in order to connect the controller with the fixture or the fixture with another.

DMX—Input



1. Ground
2. Signal (-)
3. Signal (+)
4. N/A
5. 12V DC

DMX—Output



Caution!

1. No not connect any other device or controller that is using pin 5 for data or voltage.
2. 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 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-DMXT).

DMX Profile

Drama LED FS 900

DMX Channel	Function	Description	Value	Init
1	Dimmer	Dimmer Off to Full	0-255	255
2	Strobe	No Function	0-1	0
		Strobe (slow to fast)	2-127	
		Pulse (slow to fast)	128-159	
		Reverse Pulse (slow to fast)	160-191	
		Random (slow to fast)	192-255	
3	Iris	Iris (Open to Close)	0-255	0
4	Color	Open	0-31	0
		Red	32-63	
		Green	64-95	
		Magenta	96-127	
		Yellow	128-159	
		Blue	160-191	
		Orange	192-223	
Purple	224-255			
5	CTO	Open (8000K)	0-63	0
		5600K	64-127	
		4500K	128-191	
		3200K	192-255	
6	Zoom	Zoom	0-255	255
7	Focus	Focus	0-255	46

Rail Mounted Controller Operation



Addressing the Fixture: Fixture need to be set to DMX Start address 001 and fixture controller needs to be plugged in to the 5 pin In DMX on the fixture. (Note you can't connect DMX signal and Controller signal at the same time, DMX Signal will take precedence)

Record Function: Press the red record button. Make sure lamp is on, adjust the fader control to reflect the scene you will want to record. Once adjusted prese the Preset button you would like to record to. Preset maybe recorded over by repeating the same process.

Playback Function: Turn off the Record button. Press the preset button from 1 to 7 to select a recorder preset.

Main Control Menu

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.



Main Menu Fixture Address Information Personality Test Program Master/Slave Manual Mode	<h3>Setup Menu</h3> <p>Press the Enter button to select Set Up options.</p>
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DMX Address 001	<h3>DMX Address</h3> <p>Press Enter to select the DMX start address. Use the Up/ Down buttons to select desired start address.</p>
---	--

Main Menu Fixture Address Information Personality	<h3>Information</h3> <p>Press the Enter button to select Information options.</p>
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—Fixture Info— Power On Time Lamp Temperature Version	<h3>Power On Time</h3> <p>Will give you the amount of hours the fixture has been on for. The clock can be reset by resetting the timer.</p>
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—Fixture Info— Power On Time Lamp Temperature Version	<h3>Lamp Temp</h3> <p>Will give you the LED lamp area temperature reading. Do not operate with a temperature exceeding 60°C</p>
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—Fixture Info— Power On Time Lamp Temperature Version	<h3>Version</h3> <p>Operating software Version Reading</p>
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Main Menu Fixture Address Information Personality	<h3>Personality</h3> <p>Press the Enter button to select Personality options.</p>
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—Personality— Display Adjust Iris Reverse Color Presetting Shut Presetting	Display Adjust	Display Turned: Invert Display reading On or Off Select Logo: For manufacturing Use Select Language: Select Between English and Chinese
--	-----------------------	--

—Personality— Display Adjust Iris Reverse Color Presetting Shut Presetting	Iris Reverse	Invert Iris Operation On or Off
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—Personality— Display Adjust Iris Reverse Color Presetting Shut Presetting	Color Presetting	Turns off or on the use of the color wheel
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—Personality— Display Adjust Iris Reverse Color Presetting Shut Presetting	Shutter Presetting	Turns On or Off the use of the Shutter function on DMX Controlled Mode
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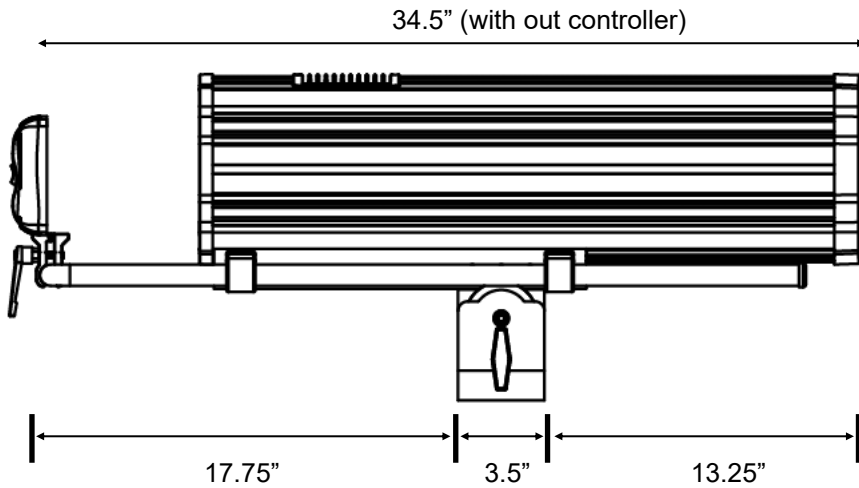
Main Menu Test Program Master/Slave Manual Mode	Test Program	Press the Enter button to select to run a built in Program that will test all fixture functions.
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Main Menu Test Program Master/Slave Manual Mode	Master/Slave	Press the Enter button to select to run fixture in Master or Slave Mode press Enter to confirm. In Slave mode fixture will work as an independent fixture and will not send DMX commands out. In Master mode the fixture Rail Controller will work as the master controller and will send a DMX command to other fixtures to follow the master units functions. Additional fixtures will require a DMX Signal connection and to be addressed on start channel 001.
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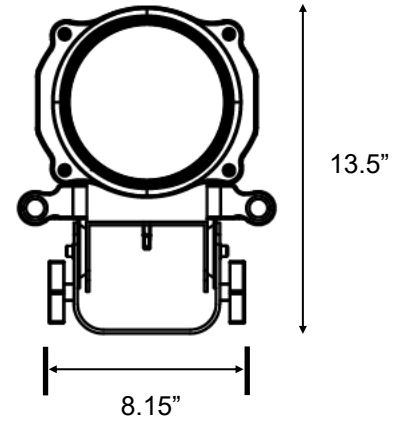
Main Menu Test Program Master/Slave Manual Mode	Manual Mode	Press the Enter button mechanical and electronic functions of the fixture will now ne able to be used via the display. Functions
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Size and Weight

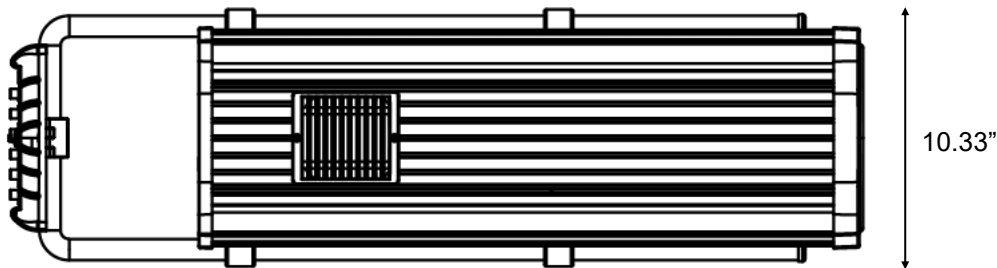
Side View



Front View



Top View



Drama FS LED 900

Size

10.33" x 34.5" x 13.5"

Packaged Size

39.5" x 15" x 15.5"

Weight

Net 34.30lb
Gross 42.35lb



P-Stand-2 (included)

Size

38.25" x 71.25" Max

Packaged Size

48" x 6" x 6"

Weight

Net 19lb
Gross 20lb

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.

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) 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.
- 4) All ventilation ports need to be free of debris to ensure proper ventilation of the fixture.

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

Replacing the fuse: When possible 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 or trained professional only.

Should you have further questions , please contact your dealer.

Parts List

7046-LED	LED
7048-PCB-MAI	Main PCB card
7048-POW	Power Supply
7046-CON-POW	Male & Female Power Connection
7048-KNO-BAS	Base Knob Set
7048-PCB-CON	Controller PCB
7048-PCB-DRI	LED Driver
7048-PCB-DIS	Display
7048-BAN-ZOO	Zoom Ban

Accessories

P-STAND-2	Black Diecast Aluminum Stand (included)
CAS-7048-1	Road Case for Fixture and Stand



Warranty Information

Warranty Conditions

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

-LED's and LAMPS 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 issue please contact our service dept.

Monday—Friday 9am to 6pm CST
Voice: 210-684-2600
E-mail: service@megasystemsinc.com

Manual Version

Please Visit www.mega.lighting for the most up to date manual version

Document Version	Date	Fixture Software	Notes
1.1	12/15/2018	V1.1	



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