

# MEGA<sup>LITE</sup>

## outshine<sup>Q500</sup>



## 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 6.
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.

#### Ingress Protection



The IP rating is commonly expressed as **IP (Ingress Protection)** is followed by 2 numbers (i.e. 65) where the numbers define the fixture rating. The first number indicates the size of a particle that can enter the fixture.. The second number indicates the extent of protection against water entering the fixture. An IP65 rating in this fixture indicates that dust particles can not enter the fixture. And there is protection against powerful water spray from entering the fixture from any direction.

# Technical Information

## Part Number

**7227-Outshine Q500**

## Mechanical Specifications

**Power Connection:** Seetronic IP Connection with Nema 5/15 adapter  
**IP Rating:** IP 65  
**DMX Connection:** Seetronics IP 65 XLR 3 pin in / out  
**Fastening System:** 2 Quick Release clamp mount  
 2 or 1 position  
**Thermal:** Maximum ambient temperature 104°  
 Maximum surface temperature 140°  
**Wireless:** Wireless Solutions IP antenna  
**Lens:** 30°



Fixture	Packaged
Size: 21" x 6.25" x 12.75"	Size: 22.5" X 8.5" X 17.5"
Weight: 30.75lb	Weight: 34lb

## Electrical Specifications

<b>LED Quantity:</b> 48	<b>Power Input Voltage:</b> 110V-240 50/60 Hz
<b>LED Watt:</b> 10	<b>Power Consumption:</b> Watts: 272 Amps: 2.33
<b>Color Type:</b> RGBW	<b>Scan Rate:</b> 7000Hz
<b>Dimming:</b> 16Bit Dimming	<b>Segment:</b> 2 Segment Control
<b>LED Lifetime:</b> *50 to 80 thousand hours Average	

## Control & Programming

### DMX 512 Protocol

**Wireless:** Wireless Solution Receiver built in

### DMX Modes:

**Mode 3 Channel** Red, Green, Blue  
**Mode 4 Channel** Red, Green, Blue, White  
**Mode 5 Channel** Dimmer, Red, Green, Blue, White  
**Mode 7 Channel** Dimmer, Red, Green, Blue, White, Strobe, Macro  
**Mode 8 Channel** Red, Red Fine, Green, Green Fine, Blue, Blue Fine, White, White Fine  
**Mode 10 Channel** Dimmer, Dimmer Fine, Red, Red Fine, Green, Green Fine, Blue, Blue Fine, White, White Fine  
**Mode 13 Channel** Dimmer, R1, G1, B1, W1, R2, G2, B2, W2, Strobe, Macro, Dim Curve, Dim Speed

**Control Options:** Built in Control via display

# Photometrics

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@ 10 Feet with 30 degree lens

All LED's ON

Lux	<b>2398.9</b>
fc	<b>222.9</b>

CW Only

CCT	<b>6817 K</b>
CRI	<b>76.1</b>
Lux	<b>1582.5</b>
fc	<b>147.1</b>

Red Only

Lux	<b>704.3</b>
fc	<b>65.5</b>

Green Only

Lux	<b>1537.3</b>
fc	<b>142.9</b>

Blue Only

Lux	<b>302.9</b>
fc	<b>28.1</b>

## 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.

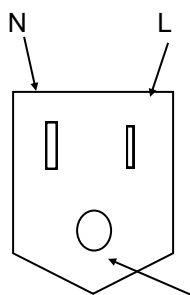
This fixture has power in and out via Seetronics Ip65 UL listed power connections rated at 16Amps. Do not exceed 5 of this type units connected on a single line.

The occupation of the connection-cable is as follows:

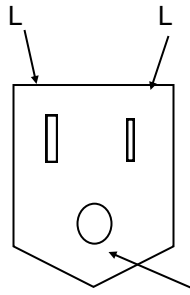
This fixture is equipped with an electronic power supply that will let the unit operate from 100V to 240V from 50Hz to 60Hz

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

110V  
Connection



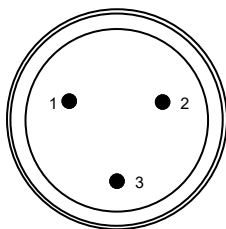
220V  
Connection



## DMX-512 Connection

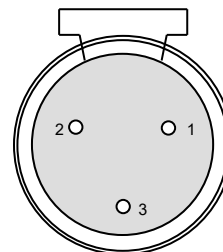
The fixture is equipped with 3 pin XLR Sockets for DMX input and output. The sockets are wired in parallel. Only use a shielded twisted pair cable designed for RS-485 and 3 pin outdoor XLR plugs and connectors in order to connect the controller with the fixture or the fixture with another.

### DMX—input



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

### DMX—output

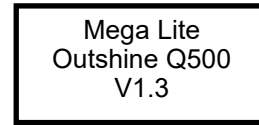


### Caution!

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).

# Display Menu

The control board on the fixture 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. The following will explain each function and its options.



● ● ● ●  
ESC DOWN UP ENTER

Address 001 (009)  DMX On	<h3>DMX Address</h3> <p>Press <b>Enter</b> to select the DMX start channel. Use the <b>up/down</b> keys (001 to 512) , Press <b>Enter</b> to confirm the setting. Press <b>ESC</b> to return to Main Menu. Number in the comas is the next available channel</p> <p>(Notes: Display must be on Main Menu for fixture to operate on DMX Mode)</p>
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Main Menu > <b>Config Mode</b> System Info Color Menu White Balance Static Color Auto Test Auto Speed Load Default Firmware Versio	<h3>Main Menu</h3> <p>Press <b>Up or Down</b> to access Main Menu display settings directory</p>
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Main Menu > <b>Config Menu</b> Channel Mode Dimmer Curve DMX Status Fan Speed WDMX Power WDMX Mode Display Mode	<h3>Configure Menu</h3> <p>Allows you to access fixture set up and operation options.</p>
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Config Menu > <b>Channel Mode</b> Dimmer Curve DMX Status	<h3>Channel Mode</h3> <p>Press <b>Enter</b> to select the DMX Channel mode of operation. Use the <b>up/down</b> keys to select Channel mode from</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 10%;">3 CH</td><td>Red, Green, Blue</td></tr> <tr><td>4 CH</td><td>Red, Green, Blue, White</td></tr> <tr><td>5 CH</td><td>Dimmer, Red, Green, Blue, White</td></tr> <tr><td>7 CH</td><td>Dimmer, Red, Green, Blue, White, Strobe, Macro</td></tr> <tr><td>8 CH</td><td>Red, Red Fine, Green , Green Fine , Blue, Blue Fine, White, White Fine</td></tr> <tr><td>10 CH</td><td>Dimmer, Dimmer Fine, Red, Red Fine, Green , Green Fine , Blue, Blue Fine, White, White Fine</td></tr> <tr><td>13 CH</td><td>Dimmer, Red 1, Green 1, Blue 1, White 1, Red 2, Green 2, Blue 2, White 2, Strobe, Macro, Dim Curve, Dim Speed</td></tr> </table> <p>Press <b>Enter</b> to confirm the setting. Press <b>ESC</b> to return to Main Menu.</p>	3 CH	Red, Green, Blue	4 CH	Red, Green, Blue, White	5 CH	Dimmer, Red, Green, Blue, White	7 CH	Dimmer, Red, Green, Blue, White, Strobe, Macro	8 CH	Red, Red Fine, Green , Green Fine , Blue, Blue Fine, White, White Fine	10 CH	Dimmer, Dimmer Fine, Red, Red Fine, Green , Green Fine , Blue, Blue Fine, White, White Fine	13 CH	Dimmer, Red 1, Green 1, Blue 1, White 1, Red 2, Green 2, Blue 2, White 2, Strobe, Macro, Dim Curve, Dim Speed
3 CH	Red, Green, Blue														
4 CH	Red, Green, Blue, White														
5 CH	Dimmer, Red, Green, Blue, White														
7 CH	Dimmer, Red, Green, Blue, White, Strobe, Macro														
8 CH	Red, Red Fine, Green , Green Fine , Blue, Blue Fine, White, White Fine														
10 CH	Dimmer, Dimmer Fine, Red, Red Fine, Green , Green Fine , Blue, Blue Fine, White, White Fine														
13 CH	Dimmer, Red 1, Green 1, Blue 1, White 1, Red 2, Green 2, Blue 2, White 2, Strobe, Macro, Dim Curve, Dim Speed														

Config Menu Channel Mode <b>&gt;Dimmer Curve</b> DMX Status	<b>Dimmer Curve</b>  Press <b>Enter</b> select from Mode L Mode S Mode I Mode Q
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Config Menu Channel Mode Dimmer Curve <b>&gt;DMX Status</b>	<b>DMX Status</b>  Press <b>Enter</b> to chose from Disable or Enable. <b>Disable</b> will turn fixture LED's off if DMX signal is lost <b>Enable</b> will leave the last DMX value if DMX signal is lost
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Config Menu Dimmer Curve DMX Status <b>&gt;Fan Speed</b>	<b>Fan Speed</b>  Press <b>Enter</b> to chose from <b>low, standard, high</b> . Fan will automatically engage at the speed selected once the temperature reaches the need for the fan.
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Config Menu DMX Status Fan Speed <b>&gt;WDMX Power</b>	<b>WDMX Power</b>  This feature will only work of you have purchased the model that has WDMX built in. Press <b>Enter</b> select <b>On</b> or <b>Off</b> . On to power on the wireless receiver or off to power off
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Config Menu Fan Speed WDMX Power <b>&gt;WDMX Mode</b>	<b>WDMX Mode</b>  This feature will only work of you have purchased the model that has WDMX built in. Press <b>Enter</b> a <b>Wait</b> indicator will turn on. At that time select to transmit linking signal from your Wireless Solution Transmitter. Once connected <b>Uplink</b> display will turn on.
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Config Menu Fan Speed WDMX Mode <b>Display Mode</b>	<b>Display Mode</b>  Press <b>Enter</b> select <b>Enable</b> to keep screen display on or <b>Disable</b> to turn of the screen after 30 sec no use.
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Main Menu Configure Mode <b>&gt;System Info</b> Color Menu	<b>System Info Menu</b>  From Main Menu scroll down to select System Info. This will allows you to access to fixture information Menu.
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Information <b>&gt;Temperature</b> Fixture Time	<b>Temperature</b>  Press <b>Enter</b> to read the fixture current temperature in the Head and the Body.
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Information Temperature <b>&gt;Fixture Time</b>	<b>Fixture Time</b>  Press <b>Enter</b> to see how long the fixture has been turned on in hour view.
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Main Menu Configure Mode System Info <b>&gt;Color Menu</b>	<p><b>Color Menu</b></p> <p>Press <b>Enter</b> to turn on the fixture to a selected color via display.          Select from color options</p> <p>Red 0-255          Green 0-255          Blue 0-255          White 0-255</p> <p style="text-align: right;">(note: once completed press <b>Enter</b> if fixture power is turned off then on in the color adjustment menu The fixture will recall the last color settings)</p>
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Main Menu System Info Color Menu <b>&gt;White Balance</b>	<p><b>White Balance Menu</b></p> <p>Press <b>Enter</b> to select the fixture individual max color value.</p> <p>Red 0-255          Green 0-255          Blue 0-255          White 0-255</p> <p style="text-align: right;">(note: once completed press <b>Enter</b>)</p>
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Main Menu Color Menu White Balance <b>&gt;Static Color</b>	<p><b>Static Color Menu</b></p> <p>Press <b>Enter</b> to select a pre-programed color 0-51 color options.</p>
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Main Menu White Balance Static Color <b>&gt;Auto Test</b>	<p><b>Auto Test</b></p> <p>Press <b>Enter</b> to select a pre-programed color chases and fades 1-4 options. Press <b>Enter</b> once completed</p> <p>(note: if fixture is powered off and on in the Auto Test menu it will return to Auto mode)</p>
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Main Menu Static Color Auto Test <b>&gt;Auto Speed</b>	<p><b>Auto Speed</b></p> <p>Select <b>Enter</b> to adjust the speed of the Auto Test. 00-40</p> <p style="text-align: right;">(note: 00 is the fastest)</p>
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Main Menu Auto Test Auto Speed <b>&gt;Load Default</b>	<p><b>Load Default</b></p> <p>Press <b>Enter</b> to return fixture to original factory display settings. Select <b>yes</b> to enable and <b>no</b> to return to original menu.</p>
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Main Menu Auto Speed Load Default <b>&gt;Firmware Versio</b>	<p><b>Firmware Version</b></p> <p>Press <b>Enter</b> to view fixtures software version.</p>
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## DMX Profile

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### Outshine Q500 3Ch Mode

DMX Channel	Function	Description	Value	Init
1	LED Color	Red LED intensity	0-255	255
2	LED Color	Green LED Intensity	0-255	255
3	LED Color	Blue LED Intensity	0-255	255

### Outshine Q500 4Ch Mode

1	LED Color	Red LED intensity	0-255	255
2	LED Color	Green LED Intensity	0-255	255
3	LED Color	Blue LED Intensity	0-255	255
4	LED Color	White LED Intensity	0-255	255

### Outshine Q500 5Ch Mode

DMX Channel	Function	Description	Value	Init
1	Dimmer	Dimmer Off to Full	0-255	255
2	LED Color	Red LED intensity	0-255	255
3	LED Color	Green LED Intensity	0-255	255
4	LED Color	Blue LED Intensity	0-255	255
5	LED Color	White LED Intensity	0-255	255

### Outshine Q500 7Ch Mode

DMX Channel	Function	Description	Value	Init
1	Dimmer	Master Dimmer Off to Full	0-255	255
2	LED Color	Red LED intensity	0-255	255
3	LED Color	Green LED Intensity	0-255	255
4	LED Color	Blue LED Intensity	0-255	255
5	LED Color	White LED Intensity	0-255	255
6	Strobe	No Function	0-1	0
		Strobe (slow to fast)	2-127	
		Strobe Pulse (slow to fast)	128-170	
		Random Strobe All (slow to fast)	171-213	
		Random 1-2 Strobe (slow to fast)	214-255	
7	Macro	No Function	0-1	0
		Fade (slow to fast)	2-127	
		Chase (slow to fast)	128-170	
		Fade 1-2 (slow to fast)	171-213	
		Chase 1-2 (slow to fast)	214-255	

# Outshine Q500 8Ch Mode

DMX Channel	Function	Description	Value	Init
1	LED Color	Red LED Intensity	0-255	255
2	LED Color	Red Fine LED Intensity	0-255	255
3	LED Color	Green LED Intensity	0-255	255
4	LED Color	Green Fine LED Intensity	0-255	255
5	LED Color	Blue LED intensity	0-255	255
6	LED Color	Blue Fine LED intensity	0-255	255
7	LED Color	White LED Intensity	0-255	255
8	LED Color	White Fine LED Intensity	0-255	255

# Outshine Q500 10Ch Mode

DMX Channel	Function	Description	Value	Init
1	Dimmer	Master Dimmer	0-255	255
2	Dimmer Fine	Dimmer Fine	0-255	255
3	LED Color	Red LED Intensity	0-255	255
4	LED Color	Red Fine LED Intensity	0-255	255
5	LED Color	Green LED Intensity	0-255	255
6	LED Color	Green Fine LED Intensity	0-255	255
7	LED Color	Blue LED intensity	0-255	255
8	LED Color	Blue Fine LED intensity	0-255	255
9	LED Color	White LED Intensity	0-255	255
10	LED Color	White Fine LED Intensity	0-255	255

# Outshine Q500 12Ch Mode

DMX Channel	Function	Description	Value	Init
1	Dimmer	Master Dimmer Off to Full	0-255	255
2	LED Color	Red 1 LED intensity	0-255	255
3	LED Color	Green 1 LED Intensity	0-255	255
4	LED Color	Blue 1 LED Intensity	0-255	255
5	LED Color	White 1 LED Intensity	0-255	255
6	LED Color	Red 2 LED intensity	0-255	255
7	LED Color	Green 2 LED Intensity	0-255	255
8	LED Color	Blue 2 LED Intensity	0-255	255
9	LED Color	White 2 LED Intensity	0-255	255
10	Strobe	No Function	0-1	0
		Strobe (slow to fast)	2-127	
		Strobe Pulse (slow to fast)	128-170	
		Random Strobe All (slow to fast)	171-213	
		Random 1-2 Strobe (slow to fast)	214-255	
11	Macro	No Function	0-1	0
		Fade (slow to fast)	2-127	
		Chase (slow to fast)	128-170	
		Fade 1-2 (slow to fast)	171-213	
		Chase 1-2 (slow to fast)	214-255	
12	Dim Curve	Linear	0-63	0
		Square	64-127	
		Invert Square	128-191	
		S-Curve	192-255	
13	Dim Speed	Dimmer Speed	0-255	0

## 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 fixture 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 year.

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.

**Note:** There is no serviceable parts inside the device except for the LED's. 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 or trained professional only.

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

## Parts List

7227-LED	Single LED
7227-POW	Power Supply
7227-PCB-DIS-MAI	Main PCB and Display
7227-PCB-DRI	Driver PCB
7227-FAN	Single IP Fan
7227-KNO	Knob
727-HOU-QUI	Quick Clamp Release Mount
7227-LED-MOD	Entire LED Module
7227-GLA	Front Glass
7227-CON-3PI	3 Pin XLR Panel Connections in/out

## Accessories

CAS-7227-4	4 Unit Road Case
7227-ACC-BAR	Removable Barn Door
7227-ACC-DEF	Removable Diffusion Filter
7227-CAB-POW	Power Input Cable
MC2043	Wireless Solution Transmitter

7227-ACC-BAR

7227-ACC-DIF



## 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.

## 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

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