

**MEGA**<sup>®</sup>**LITE**

# TECLIGHT<sup>™</sup>

## BVW150



### USER MANUAL

#### Table of Contents

|                       |    |
|-----------------------|----|
| Safety Information    | 2  |
| What's Included       | 2  |
| Specifications        | 3  |
| Main Power Connection | 4  |
| DMX Connection        | 4  |
| Display Settings      | 5  |
| DMX Profile           | 7  |
| Size And Weight       | 8  |
| Installation          | 8  |
| Parts and Accessories | 9  |
| Warranty              | 10 |
| Customer Service      | 11 |

**Check that the unit has not been damaged during transport.**



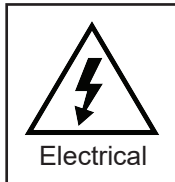
Read all cautions and warnings  
prior to operation of this  
equipment

### Protection Against Fire



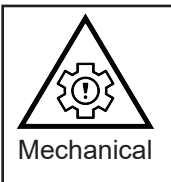
1. Maintain a minimum of 1 foot distance from any type of flame.
2. The fixture is designed for indoor and outdoor use.
3. Do not install the unit too close to a heat source.
4. Make sure cables are properly secured.
5. Maximum surface operating temperature: 130°.
6. Make sure fixture lens are not pointing towards the sun or direct light input.

### Protection Against Electrical Fire



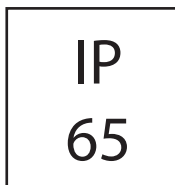
1. Disconnect power before servicing.
2. For connection to main power supply, proceed to page 4.
3. The power supply must be earthed (electronically grounded).
4. This fixture must not be left on for long periods of time.

### Protection Against Mechanical Hazards



1. Use secondary 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 water spray from entering the fixture from any direction.

### What is Included

1pc TechLight BVW150 Fixture  
1pc Seetronics SAC3PX-67 to Nema 5-15 Cable  
1pc Quick Release Clamp Mount  
1pc User Manual

# Specifications

---

## Fixture ID 7080-TECHLIGHT BVW150

### Mechanical Specifications

---

|                           |   |
|---------------------------|---|
| <b>Housing:</b>           | Die-Cast Aluminum   |
| <b>Outdoor Rating:</b>    | IP-65   |
| <b>Mounting System:</b>   | 1 Quick Release Clamp Mounts, 13mm Center Hole              |
| <b>Power Connection:</b>  | Input: Seetronics SAC3PX-67<br>Output: Seetronics SAC3FX-67 |
| <b>Signal Connection:</b> | Seetronics C5F2C-W-B 5 Pin XLR In and Out                   |
| <b>Weight:</b>            | 8.3lb   |
| <b>Size:</b>              | 10.75" X 5.39" X 6"   |

### Electrical Specifications

---

|                           |   |
|---------------------------|---|
| <b>Light Source:</b>      | 312 X 0.5W LEDs   |
| <b>LED Temperatures:</b>  | <b>Blue</b> = 448nm<br><b>Warm White</b> = CCT 2762K, Lumens 9232, CRI 91<br><b>Cool White</b> = CCT 7211K, Lumens 9943, CRI 93<br><b>Warm and Cool White</b> = CCT 4274K, Lumens 13004, CRI 95 |
| <b>Power:</b>             | Electronic 100-240V AC 50/60  |
| <b>Power Consumption:</b> | 140 Watts<br>.92 Amps @120V   |
| <b>Power Link:</b>        | 15 Units @ 120V   |

### Control & Programming

---

|                        |   |
|------------------------|---|
| <b>Protocol:</b>       | DMX 512, RDM  |
| <b>DMX 4 Modes:</b>    | <b>3 Channel Mode:</b> Cool White LED Intensity, Warm White LED Intensity, Blue LED Intensity<br><b>4 Channel Mode:</b> Dimmer, Cool White LED Intensity, Warm White LED Intensity, Blue LED Intensity<br><b>5 Channel Mode:</b> Dimmer, Cool White LED Intensity, Warm White LED Intensity, Blue LED Intensity, Strobe |
| <b>RDM Parameters:</b> | Fixture Label<br>DMX Start Channel Address<br>Channel Mode Set<br>Temp. Sensor Head and Body<br>Keep DMX Data<br>Scan Rate<br>Dimmer Curve<br>RGBW Value Adjustments<br>Fan Speed   |
| <b>Operating Mode:</b> | DMX, Manual Settings Via Display  |

## Main Power Connection

### Caution!

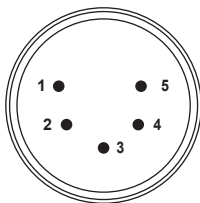
1. Do not connect fixture to a dimmer system.
2. This unit must be earthed. (Electronically grounded)
3. Replace fuse only with the specified type and rating.
4. This device is equipped with auto switching power supply that will allow the fixture to work from 100-240V AC 50/60Hz
5. Power Link max 15 units at 120V

| Cable USA | Cable EU       | 110V    | 220V   |
|-----------|----------------|---------|--------|
| Black     | Brown          | Live    | Live   |
| White     | Light Blue     | Neutral | Live   |
| Green     | Yellow / Green | Ground  | Ground |

## DMX-512 Connection

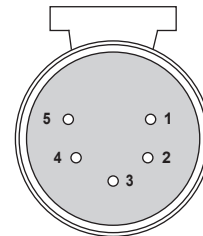
The fixture is equipped with 5 pin XLR Sockets for DMX input and output connection. The sockets are wired in parallel. Only use a shielded twisted pair cable designed for RS-485 and 5 pin XLR plugs and connectors in order to connect the controller with the fixture or the fixture with another.

### DMX - Input



|                 |
|-----------------|
| 1. Shield (Grd) |
| 2. Signal (-)   |
| 3. Signal (+)   |
| 4. N/A          |
| 5. N/A          |

### DMX - Output



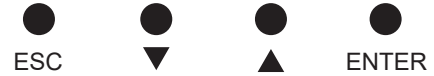
### Caution!

On the last fixture the DMX signal needs to be terminated with a terminator. Pre-manufactured terminator are available for purchase from your Mega-Lite dealer item #P-DMX-T.

# Display Control

The control board on the rear of the fixture 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.

Address  
001  
[ 004 ]  
DMX ON



|   |  |
|---|--|
| <p>Address<br/>001<br/>[ 004 ]<br/>DMX On</p> | <p><b>DMX Address:</b> Press <b>Enter</b> to select the DMX start channel. Use the <b>Up/Down</b> keys to select from (001 to 512). Press <b>Enter</b> to confirm the setting. Press ESC to return to Main Menu. The top number will represent the fixture's DMX Address, and the bottom will be the next available DMX Address.<br/>(Note: Display must be on Main Menu for fixture to operate on DMX Mode)</p> |
|---|--|

|  |  |
|--|--|
| <p>Main Menu<br/>&gt;<b>Channel Mode</b><br/>LED Dimmer<br/>LED Strobe</p> | <p><b>Channel Mode:</b> Press <b>Enter</b> to select the fixtures DMX operational mode. Use the <b>Up/Down</b> buttons to select preferred fixture profile mode</p> <p><b>3Ch</b> Cool White, Warm White, Blue<br/><b>4Ch</b> Dimmer, Cool White, Warm White, Blue<br/><b>5Ch</b> Dimmer, Cool White, Warm White, Blue, Strobe</p> |
|--|--|

|  |  |
|--|--|
| <p>Main Menu<br/>Channel Mode<br/>&gt;<b>LED Dimmer</b><br/>LED Strobe</p> | <p><b>LED Dimmer:</b> This function allows for manual dimming of each led via display. For Channel Function please refer to DMX Profile for 3 Channel mode<br/>Cool White= 0-255<br/>Warm White= 0-255<br/>Blue= 0-255</p> |
|--|--|

|  |   |
|--|---|
| <p>Main Menu<br/>Channel Mode<br/>LED Dimmer<br/>&gt;<b>LED Strobe</b></p> | <p><b>LED Strobe:</b> This function allows you to strobe the LED's. Press <b>Enter</b> use the <b>Up/Down</b> Keys to select desired Strobe Speed (15 Options from slow to fast)<br/>(Note: LED Dimmer Function intensity must be set prior in the LED Dimmer Function)</p> |
|--|---|

|  |  |
|--|--|
| <p>Main Menu<br/>&gt;<b>Fan</b><br/>Temperature<br/>Settings</p> | <p><b>Fan:</b> Press Up or Down to select fan operating mode.</p> <p>OFF: No Fan (Heat Sensor Dimming)<br/>Low: Fan always on, reduced performance.<br/>Standard: Fan control on Heat Sensors<br/>High: Fan always on, performance mode.</p> |
|--|--|

Main Menu  
Fan  
>**Temperature**  
Settings

**Temperature:** This fixture is equipped with internal fan sensors. Once the fixture reaches 96 degrees Fahrenheit or 36 degrees Celsius the fans will engage. Sensors read the temperature of the fixture head and body.

Main Menu  
Auto Speed  
Temperature  
>**Setting**

**Settings:** Preferred user setting options

Config Menu  
>**OLED Back Light**  
DMX Fail  
Dimmer Settings

**OLED Back Light:** To turn off display screen after 2 minutes of no use select **Disable**. To enable the screen to remain on when is use select **Enable**.

Config Menu  
>**DMX Fail**  
Dimmer Settings  
Factory Reset

**DMX Fail:** If DMX Signal is lost select **Enable** to have the last DMX command hold. Select **Disable** option if you want to have fixture setting go to off position.

Config Menu  
DMX Fail  
>**Dimmer Settings**  
Factory Reset

**Dimmer Setting:** Select Dimmer Setting to be used for dimming type when used in Ch 3 mode.

**Options:** (L) Linear, (S) Square Law, (I) Inv. Square Law, (Q) S Type.

Config Menu  
DMX Fail  
Dimmer Settings  
>**Factory Reset**

**Factory Reset:**

**False:** To return to menu.

**True:** To set fixture to original factory settings.

Config Menu  
Dimmer Settings  
Factory Reset  
>**Scan Rate**

**Scan Rate:**

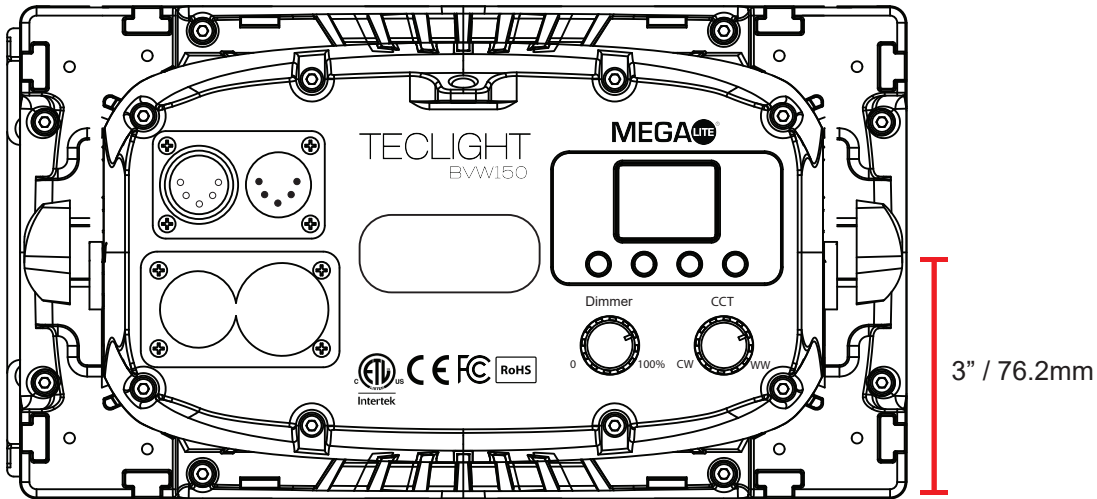
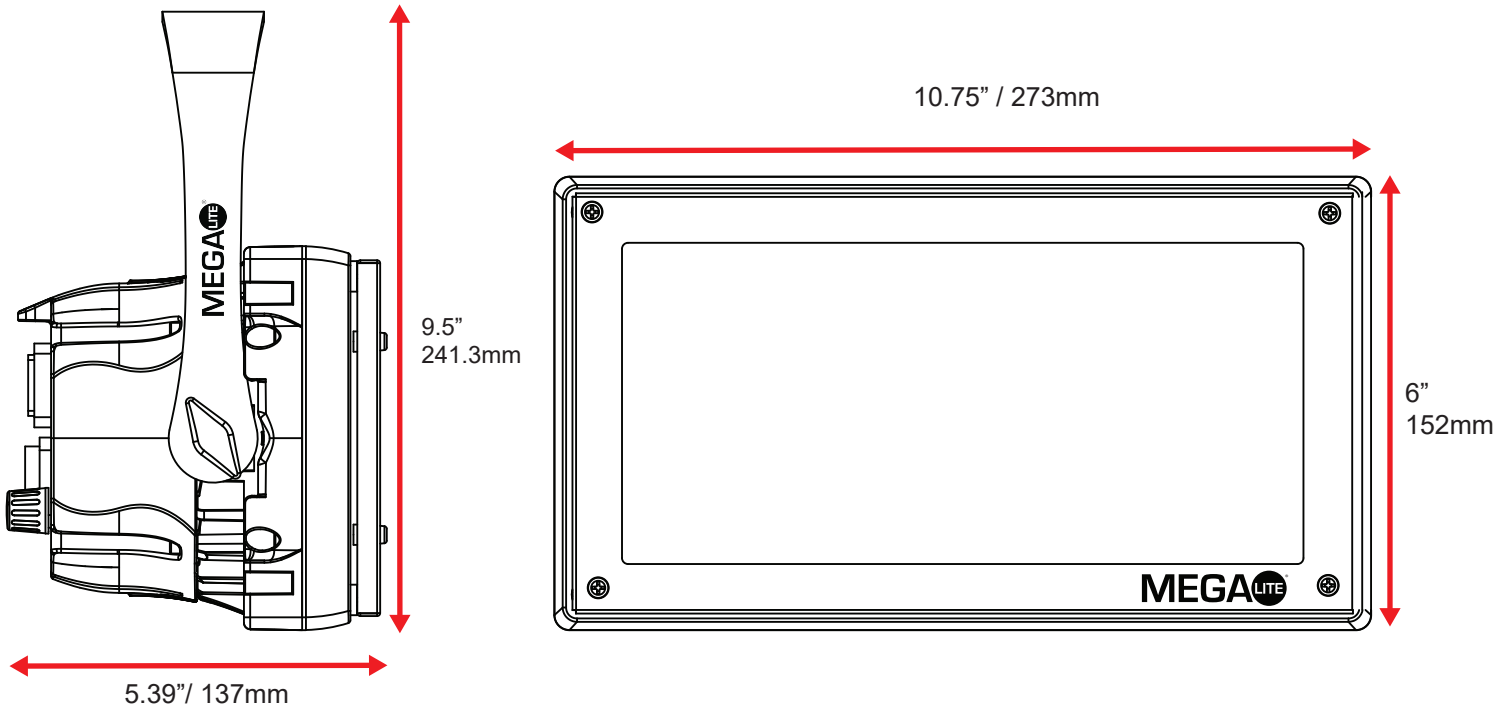
1,000Hz  
5,000Hz  
10,000Hz

# DMX Profile

## Teclight BVW 150

| 3<br>Channel<br>Mode | 4<br>Channel<br>Mode | 5<br>Channel<br>Mode | Function       | Description                               | Value   | Init Value |
|----------------------|----------------------|----------------------|----------------|---|---------|------------|
|                      | 1                    | 1                    | Dimmer         | Dimmer Off to Full (front leds)           | 0-255   | 255        |
| 1                    | 2                    | 2                    | LED Intensity  | Cool White LED Intensity                  | 0-255   | 255        |
| 2                    | 3                    | 3                    | LED Intensity  | Warm White LED Intensity                  | 0-255   | 255        |
| 3                    | 4                    | 4                    | LED Intensity  | Blue LED Intensity                        | 0-255   | 255        |
|                      |                      |                      |                | No Function                               | 0-9     |            |
|                      |                      |                      | Strobe         | Strobe (slow to fast)                     | 10-99   |            |
|                      |                      | 5                    | (Requires      | Pulse Strobe (slow to fast)               | 100-149 | 0          |
|                      |                      |                      | LED Intensity) | Random Strobe All (slow to fast)          | 150-199 |            |
|                      |                      |                      |                | Random Strobe Each Segment (slow to fast) | 200-255 |            |

# Size and Weight



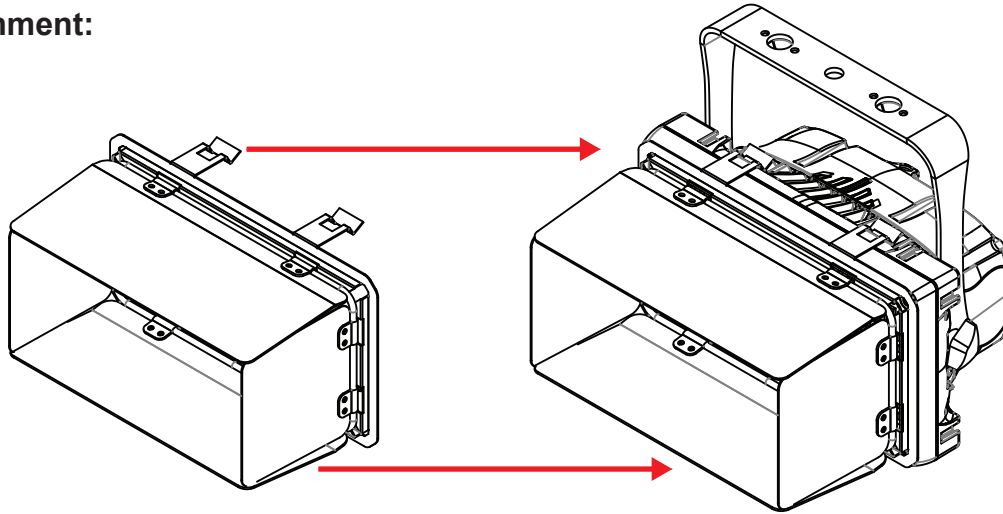
|                  |                     |
|------------------|---------------------|
| Fixture Size:    | 10.75" X 5.39" X 6" |
| Fixture Weight:  | 8.3lb               |
| Packaged Size:   | 13.75" X 12.5" X 8" |
| Packaged Weight: | 10lb                |



## Optional Accessories

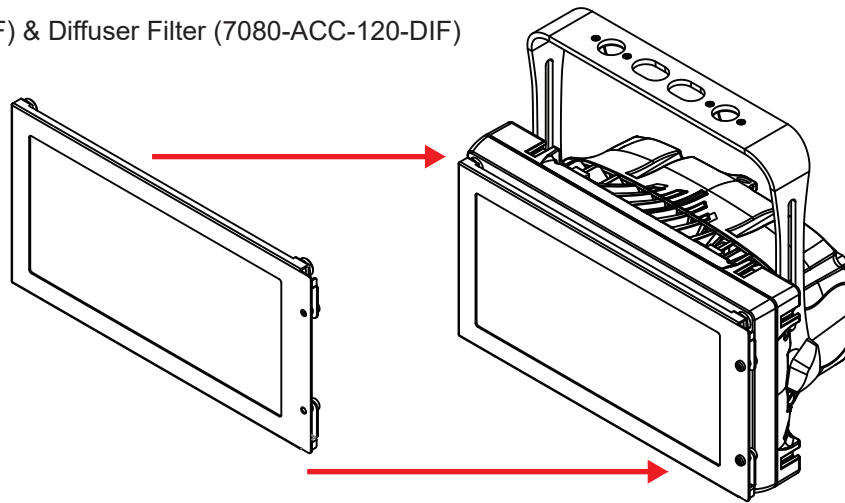
---

### Barn Door Attachment: (7080-ACC-BAR)



### Diffuser Attachment:

Diffuser Holder (7080-ACC-DIF) & Diffuser Filter (7080-ACC-120-DIF)



## Installation

---

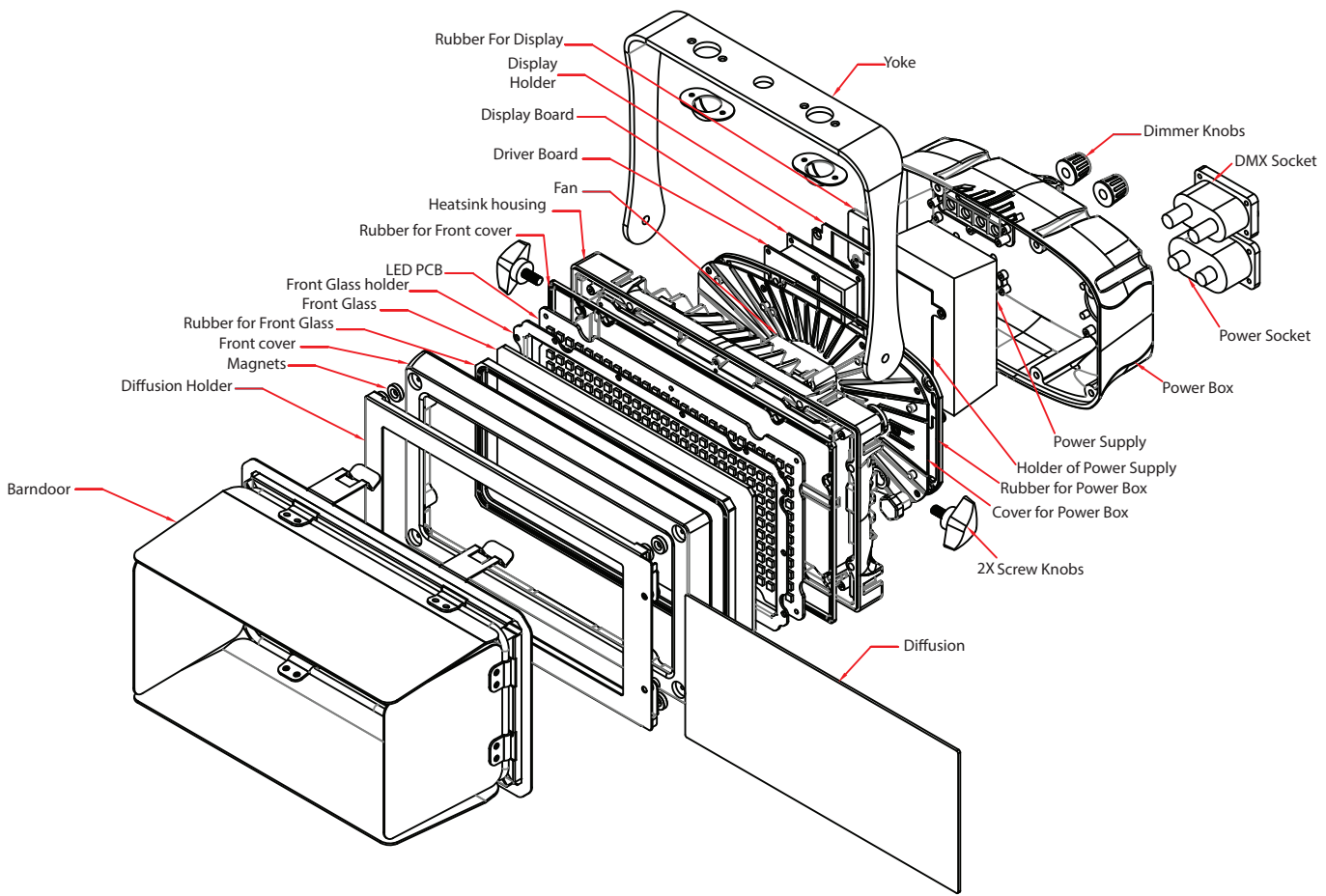
### Caution!

1. The Installation 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.
4. Use high quality installation equipment to hang the unit.

When rigging the it is very important that you follow common safety procedures. Rigging requires extensive experience including but not limited to calculating working weight 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 secure 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 failures. Installation should be checked at least one time a year by a skilled professional.

## Parts & Accessories



## Parts & Accessories List

| Part Number      | Description             |
|------------------|-------------------------|
| 7080-PCB-DIS MAI | Display Board           |
| 7080-POW         | Power Supply            |
| 7080-PCB-DRI     | Driver Board            |
| 7080-LED-MOD     | LED Board               |
| 7080-FAN-60      | Fan                     |
| 7080-GAS-FRO     | Rubber Ring Front Cover |
| 7080-GAS-REA     | Rubber Ring Back Cover  |
| 7080-HOU-FRO     | Front Cover             |
| 7080-HOU-MID     | Housing                 |
| 7080-HOU-REA     | Rear Cover              |
| 7080-HOU-CEN     | Rear Panel              |
| 7080-PCB-KNO     | Knob for Dimmer         |
| 7080-KNO         | Cap for Dimmer Knob     |
| 7080-HOU-KNO     | Housing Knob            |
| 7080-STI         | Display Sticker         |
| 7080-ACC-BAR     | Barn Door Attachment    |
| 7080-ACC-DIF     | Diffuser Attachment     |
| 7080-ACC-120-DIF | Diffuser Filter         |
|                  |                         |

## General Terms & Conditions

1. All resellers must have approved and signed Reseller Application on file, including their respective state tax information and W-9. Applications are re-evaluated on a fiscal calendar year basis to assure business integrity and tax status.
2. Cash, check, cashiers check, ACH, wire transfer, MasterCard, Visa, Discover, and American Express are accepted forms of payment.
3. Past due invoices will be charged 1.5% per month finance charge. Uncollected invoices are subject to be turned over to collection.
4. The reseller will pay all reasonable expenses incurred in the course of collections.
5. The proper venue for litigation will be Bexar County, Texas.
6. Returned checks will be charged a \$50.00 fee.
7. All prices are in U.S. Dollars.
8. All prices and specifications are subject to change without notice, sales order confirmations are emailed and will reflect correct pricing.
9. All terms are insured, monitored, analyzed and approved by Coface USA. Changes in credit line and approved terms can change without notice. Company authorization of credit is based on Coface approvals. Any conflicts or disagreements should be referred to: 650 College Rd East Suite 2005 Princeton, NJ 08540. 1-609-469-0400. E-mail: cofaceusa@coface.com
10. Returns are subject to 25% restocking charge plus any necessary charges for repair or re-packaging.

## Shipping Terms & Conditions

1. All orders are EXW San Antonio, TX (EXW means that a buyer/reseller incurs the risks for bringing the goods to their final destination) any deviation needs to be done in writing.
2. UPS ground shipping is the preferred shipping method. Requests for specific carriers may require use of the customer's account number and may incur an additional charge for handling.
3. Drop shipments are subject to all return charges at resellers expense. Drop shipments are not allowed outside of the territorial United States.
4. NO C.O.D. shipments allowed.
5. Returned and undelivered shipment charges are the buyer/resellers responsibility and will be billed to the buyer/reseller.
6. The freight carrier and Company shipping@mega.lighting should be notified upon receipt of damaged freight, discrepancies, or non-conformities within 24 hours. Company can assist in making claims with carriers or agents in the event of any loss or damage.
7. Upon acceptance in good order by Carrier from Company, the material becomes the property of the Reseller.

## Warranty and Service Procedures

1. All returns require an RMA# (Return Merchandise Authorization number) before returning goods for any reason. For a service or warranty RMA, please email service@mega.lighting or call (210)684-2600. For sales or demo returns, please contact sales@mega.lighting.
2. Case will be created and an RMA notice will be emailed. All units received must have the RMA # included with the unit as well as on the shipping label.
3. All shipping charges are the responsibility of the customer: MEGA Systems, Inc., Service, 18668 HWY 16 N., Helotes, TX 78023

## Warranty for Products Purchased Before 2021

Unless otherwise stated in writing, product is covered by a one year parts and labor limited warranty and is subject to same limitations listed under the limited warranty exclusions listed below.

## Warranty for Products Purchased After January 1, 2021

**MEGA SYSTEMS INC** ("MSI") hereby warrants to the original purchaser/owner (Customer"), MSI products to be free of manufacturing defects in material and workmanship, for the warranty periods as defined below from the original purchase invoice date. This warranty applies exclusively to new MSI branded and/or distributed products listed below, purchased from an MSI AUTHORIZED dealer/reseller. This warranty is not transferrable and may or may not apply to products sold and/or forwarded outside the United States. Please contact MSI for applicable regional product warranty information.

The purchase of MSI product constitutes the Customer's acceptance of all warranty terms and conditions as listed in this limited warranty statement. This warranty provides the Customer with legal rights, which may vary from state to state. Please contact MSI regarding warranty questions prior to purchasing.

| Product / Series  | Warranty Period                                  | Coverage |
|---|--|----------|
| Battery Powered LED   | Six month battery, one year all other components | 1, 2     |
| Moving LED, Hazers  | One Year   | 2        |
| Outdoor IP-Rated LED  | Two Years  | 3        |
| House Light LED, Decorative LED, Compact LED, iCandy LED, Theatrical LED, Strobe Wash LED, Follow Spot LED, Production & House of Worship Control, Architectural Control, Theatrical Control, Dance Venue & Mobile DJ Control, Direct View LED Displays, and MV Controllers | Three Years                                      | 4        |

**1. Battery: 183 days/six months 2. Parts and Labor: 365 days/one year 3. Parts and Labor: 730 days/two years 4. Parts and Labor: 1095 days/three years**

### This limited warranty excludes any defects caused by, resulting from, or relating to the following:

- Normal wear and tear of lamps, color media, brushes, contact rings, lamp sockets, belts and other parts prone to wear and tear.
- Misuse, abuse, improper handling, accident, alteration or attempts to repair by or on behalf of the owner or any person not authorized by MSI.
- Damage to the product resulting from acts of God, including but not limited to, earthquakes, hurricanes, tornadoes, lightning and other natural disasters, fire, explosion, flood, riots, civil disorder or any other cause beyond the reasonable control of MSI.
- Exposure to harsh or excessively corrosive environmental conditions (whether indoors or outdoors) including, but not limited to, extreme temperature, humidity, atmospheric conditions (including salinity or pressure), radiation (UV, infrared or nuclear), shock and conditions which exceed the product's Ingress Protection ("IP") rating.
- Use of the product in a manner which exceeds the applicable product specification, including, but not limited to, exposure to excessive, insufficient, or other voltage conditions.
- Installation or use of the product not in accordance with the technical documentation, MSI guidelines (as may be posted on its website at [www.megasystemsinc.com](http://www.megasystemsinc.com) from time to time or otherwise designated by MSI or its brands) or applicable building and electrical codes, regulations, and standards.
- Failure to maintain the product in accordance with the technical documentation.
- Natural degradation and color shift of the LED source over the course of normal product use.
- Slight deviations in the specified values of intensity and color that do not affect the functionality of the product.
- Use of the product not for its intended purpose.

All warranty claims are evaluated under the terms of this limited warranty. If a product falls within the warranty period and if, upon examination by MSI, it is found to have failed for a covered cause, MSI will, at its sole discretion, repair or replace the defective part or product or reimburse the purchaser a pro-rated portion of the purchase price based on the percentage of the warranty period still remaining as of the date that the returned product was received by MSI. Should a replacement part or product be discontinued or unavailable, MSI reserves the right, in its sole and absolute discretion, to substitute a comparable replacement part or product for the defective part of product. MSI warranty obligation herunder is limited solely to the repair or replacement of or reimbursement for the particular parts or products determined by MSI to have failed for a covered cause within the warranty period. In no event shall MSI be responsible to replace or reimburse purchaser for any products or portions of a system that MSI determines has not failed for a covered cause within the warranty period, even if such other products or portions of a system are used together with products being repaired or replaced by MSI under this warranty and the repaired product differs in brightness, colors or any other attribute after the repair.

Costs of removal, shipping to MSI or its authorized representative and reinstallation are solely the responsibility of the purchaser. If MSI determines that the product is covered by this limited warranty, it will only pay for parts and labor as indicated by product type. If MSI determines that the product is not covered by this limited warranty, the purchaser will have the option of paying for the repair if the product can be repaired and the purchaser shall be responsible for the cost of shipping the repaired product back to the purchaser. MSI reserves the right, in its sole and absolute discretion, to decline any repair.

IN NO EVENT SHALL MEGA SYSTEMS, INC. BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL, SPECIAL, INDIRECT OR PUNITIVE LOSS OR DAMAGE OF ANY KIND, INCLUDING, BUT NOT LIMITED TO, LOSS OF PROFITS OR REVENUES, LOSS OF USE OF THE PRODUCT OR ANY OTHER GOODS OR ASSOCIATED EQUIPMENT, DAMAGE TO ANY ASSOCIATED EQUIPMENT, COST OF CAPITAL, COST OF SUBSTITUTE PRODUCTS, FACILITIES OR SERVICES, DOWN TIME COST, INSTALLATION OR LABOR COSTS, OR CLAIMS OF THE PURCHASER'S CUSTOMERS, WHETHER BASED ON WARRANTY, CONTRACT OR NEGLIGENCE, ARISING IN CONNECTION WITH THE SALE, USE OR REPAIR OF THE PRODUCT. MEGA SYSTEMS INC'S MAXIMUM LIABILITY SHALL NOT, IN ANY CASE, EXCEED THE PURCHASE PRICE OF THE PRODUCT THAT GIVES RISE TO THE CLAIM.

EXCEPT FOR THE LIMITED WARRANTY SET FORTH HEREIN, ALL PRODUCTS SOLD BY MEGA SYSTEMS, INC. ARE SOLD "AS IS" WITHOUT ANY WARRANTY, EXPRESS, OR IMPLIED, STATUTORY OR OTHERWISE, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OR MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ALL OF WHICH ARE EXPRESSLY AND SPECIFICALLY DISCLAIMED BY MEGA SYSTEMS, INC.

## Customer Support

---

MEGA-Lite has a customer support line to provide set-up help and to answer any questions should you encounter a problem. Please visit our website for any other related technical documents. For service related issues, please contact our service dept.

Monday - Friday 9am to 6pm CST  
(210)684-2600  
Service@mega.lighting

## Manual Version

---

Please visit [www.mega.lighting](http://www.mega.lighting) for the most up-to-date manual version.

| Manual Version | Date       | Fixture Software | Notes |
|----------------|------------|------------------|-------|
| 1.0            | 03/07/2025 | 1.1              |       |



MEGA LITE  
18662 Bandera Rd  
Helotes, TX 78023  
Phone (210)684-2600 / Fax (210)855-6279  
[www.mega.lighting](http://www.mega.lighting) / [info@mega.lighting](mailto:info@mega.lighting)