

### Product Summary:

In collaboration with the Vision X engineering team, the Imtra LED Straight Bar Lights are specifically designed with the extra protections required to survive life on the open ocean. The 304 stainless-steel brackets with isolation washers, copper circuit boards, tinned 18 gauge sheathed cables and marine-grade gloss coating are all there to protect the fixture from corrosion and other harmful elements encountered on the water. Additional safeguards such as CISPER25 EMC/EMI shielding, vibration/shock protection and transient voltage suppression set these fixtures far above our competition.



### Package Contents:

- (1) Lo Pro Straight Light Bar with mounting bracket installed
- (2) Hex Head M8 mounting bolt
- (2) Metal Washer
- (2) Nylon Locking Nut
- (2) Isolating PC Spacer Kits

### Tools Required For Assembly

- 13mm Wrench
- 13mm Socket Wrench
- 5mm Allen Wrench
- Drill with 9/16" size drill bit (if mounting hole is needed)



**PLEASE READ ALL INSTRUCTIONS BEFORE INSTALLATION**



### Safety Instructions:



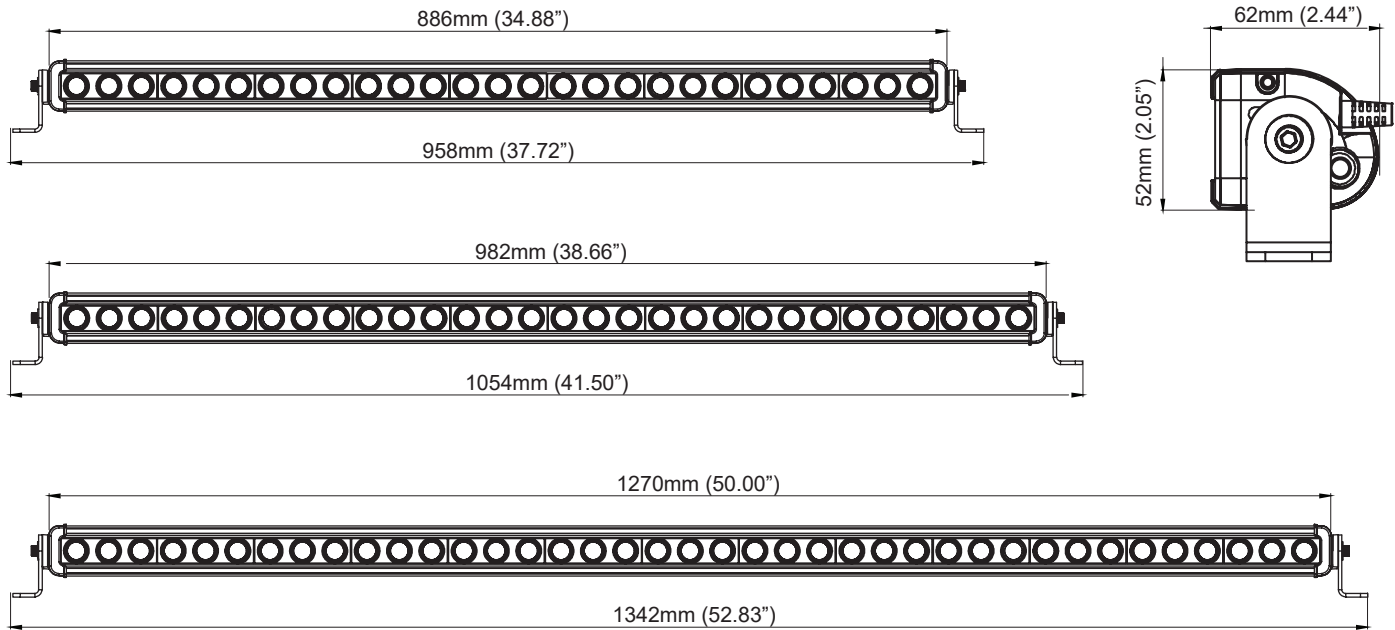
**WARNING: RISK OF ELECTRIC SHOCK**

- Installation is intended to be done by a qualified electrician in accordance with the control of hazardous energy (lockout/tagout) safety regulations and procedures.
- Installation must follow the NEC/ABYC/USCG electrical codes set for the specific vessel the fixture is being installed on.
- Ensure **ALL POWER SOURCES** connected to the room or fixture location are turned **OFF** before installation.
- Verify input voltage is within fixture range before installation.
- The use of safety equipment (safety glasses and gloves) are highly recommended.
- Avoid mounting near any combustible material and/or heating units.
- Any maintenance/repairs to the fixture may only be carried out by a qualified electrician.
- Allow proper cooling time before handling the fixture if it has been installed & powered.
- Any modifications to the fixture will automatically void warranty.
- Always inspect the fixture for any damage prior to installing and **DO NOT** install if any damage is present.



## Fixture Dimensions:

2D Front and Side View (mm)



## Specifications & Certifications:

Technical Information

<b>Housing Finish/Material</b>	White or Black Marine Grade Powder Coated Die-Cast Aluminum
<b>Bracket</b>	304 Stainless Steel
<b>Lens Material</b>	Polycarbonate
<b>Input Voltage</b>	9-32VDC
<b>Max Wattage</b>	32"- 135W   40"- 150W   50"- 195W
<b>Luminous Flux (Effective)</b>	32"- 9,601   40"- 10,044   50"- 11,835
<b>Correlated Color Temperature (CCT)</b>	5000K
<b>Beam Angle</b>	25°, 60°, 25°/60°
<b>Ingress Protection</b>	IP68/IP69K
<b>Protections</b>	CISPR 25 - Class 1
<b>Certifications &amp; Compliance</b>	CE, ROHS, IEC6247, Prop 65. SAE J-3098
<b>Warranty</b>	3 Years



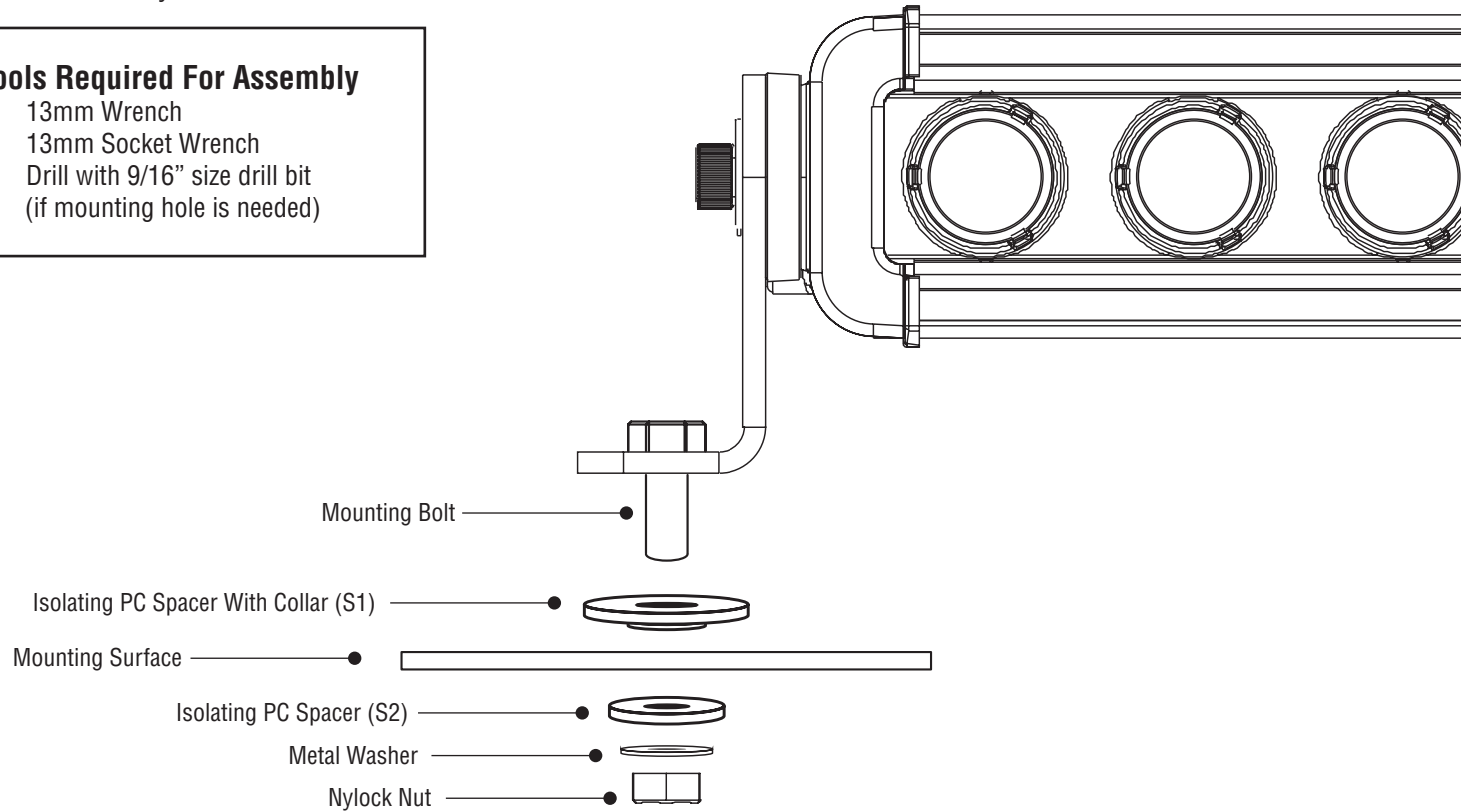
## Fixture Mounting Instructions:

### Isolation Kit Assembly

#### Tools Required For Assembly

- 13mm Wrench
- 13mm Socket Wrench
- Drill with 9/16" size drill bit (if mounting hole is needed)

### Isolation Assembly Diagram:



WARNING: Bolts, Nuts, and Washers are Stainless Steel. **DO NOT USE** Pneumatic or Electric Tools to Tighten and Loosen. The **Hardware Will Permanently Seize Together.**



## Recommendations:

- For all threaded fasteners we recommend using Loctite LB 8023™ Marine Grade Anti-Seize.
- Coat under the top of the bolt head as well as the entire bottom end of the bolt thread where the nut will be threaded on.

## Mounting Instructions:

- Find suitable location for the light fixture and mark mounting hole location using the provided template if drilling is needed.
- Allow for ~25mm around the housing on all sides to permit convective cooling of the heat sink. Flush mounting is not permitted and will void warranty.
- Drill a 9/16" hole to accommodate the PC Spacer With Collar (S1) into mounting surface.
- Use PC Spacer (S2) between mounting surface and metal washer.
- Thread on Nylon Locking Nut
- Using a 13mm wrench/socket to hold the hex head bolt and a 13mm wrench/socket for the nut, tighten down to secure.

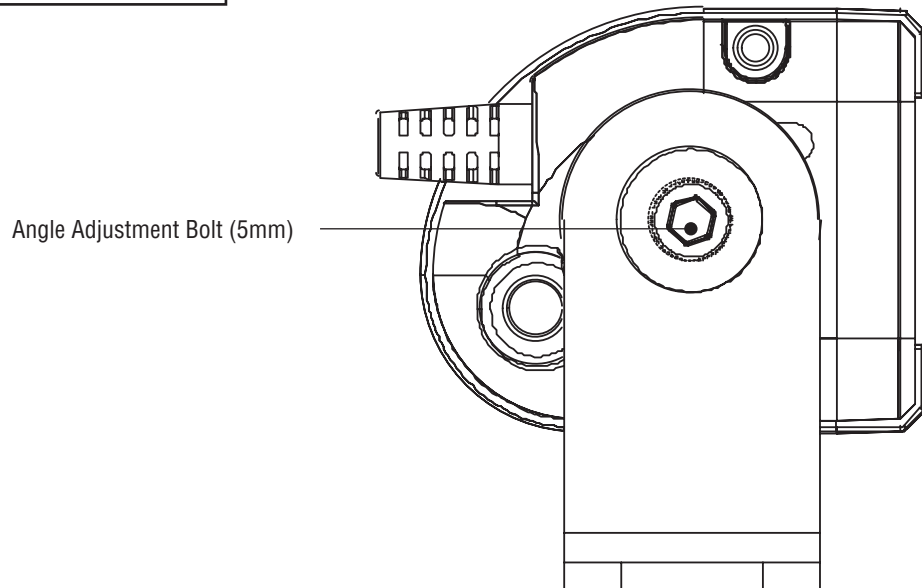


## Fixture Aiming Instructions:

Beam Angle Adjustment

### Tools Required For Assembly

- 5mm Allen Wrench



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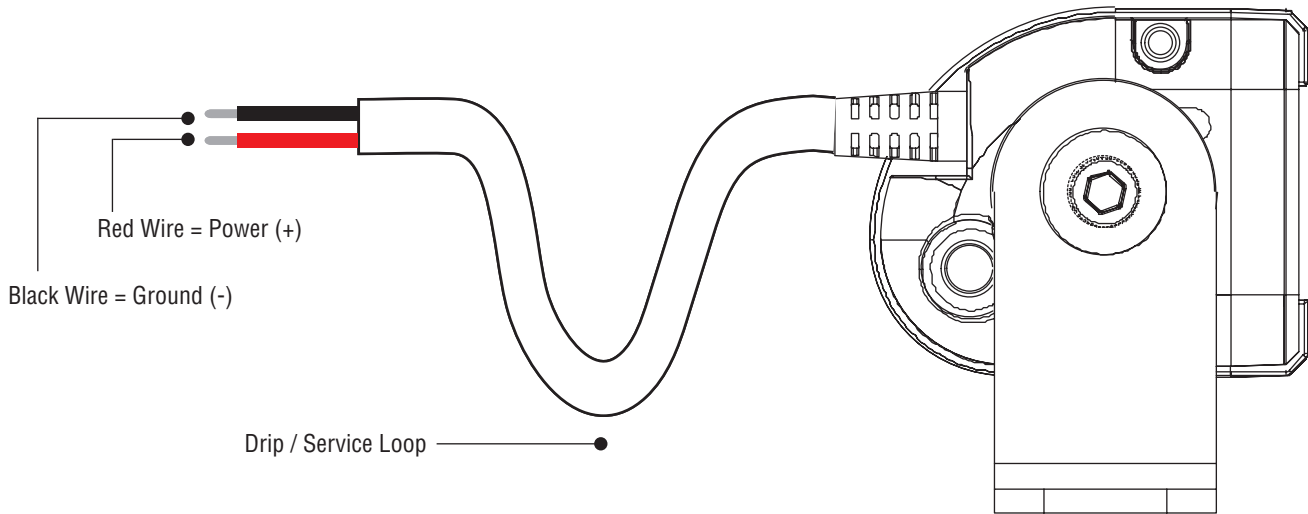
## Light Angle Adjustment Instructions:

- Loosen (do not remove) the 2 fixture Angle Adjustment Bolts located on both sides of the fixture using a 5mm Allen Wrench.
- With the fixture loose from the mounting bracket, adjust the fixture up or down to the desired aiming angle.
- Re-tighten the 2 side Angle Adjustment Bolts.



### Fixture Wiring Instructions:

Wire Functions / Drip & Service Loop / Cable Gland



### Recommendations:

- A Drip / Service loop should be used to ensure water does not run down the wire towards the fixture as well as provide adequate space for the fixture to move if removal or service is required.
- A waterproof cable gland should be used where the cable passes into the vessel to ensure a watertight seal.

### Wiring Instructions:

- Supplied with the fixture is 6' x 16awg duplex boat cable lead with 2 raw wires showing.
- Connect the Red Wire (+) to your DC power source using proper electrical connectors.
- Connect the Black Wire (-) to your grounding source.
- Test fixture.



## Warranty Information:

Rules and Regulations



## Rules and Regulations:

- Proof of purchase is required to validate warranty and is valid from the original date of purchase. All products must be bought through Imtra Corp., an Imtra Corp. Authorized Dealer, or one of their dealers/resellers.
- Improper installation, accident, physical damage, neglect, and normal wear are not covered under warranty.
- Lights operated in environments over 150° Fahrenheit are not covered under warranty.
- Warrantied items will be repaired to working condition and returned without cosmetic alterations.
- Warranties should be handled through the dealer/reseller the product was purchased from; customer is responsible for delivery.
- If product is not under warranty, customers will be responsible for return shipping charges.
- Additionally, non-warranted items can be repaired at the customer's expense of parts and labor, at the discretion of Imtra Corp., who will provide an estimated repair cost before proceeding with the repair.

## Installer Notes:

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