

**POLICELIGHTZ**



## **Linear Slim Pro 40", 48" & 55"**

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*Installation & User Manual*



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## CHAPTER 1

### Safety and Precautions for Installers & Users

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For the safety of installers and users please read this manual thoroughly before installing, operating and servicing the Police Lightz Linear Slim Pro Light Bar Series. The safety guidelines and instructions throughout the user manual are reminders to exercise caution and care at all time. Please make sure to keep this user manual at hand for quick reference. To download copies or updates of this manual please visit [www.whackerusa.com](http://www.whackerusa.com). For questions related to this or other Police Lightz products please contact us at [policelightz@gmail.com](mailto:policelightz@gmail.com) or call the Police Lightz Technical Department at 888-250-4144.

**Note:** This equipment is intended for use by authorized personnel only. It is the responsibility of the owner/operator to obey all laws regarding emergency safety equipment. Police Lightz and any of its subsidiaries are not responsible or liable for any loss resulting from improper or unauthorized use of this equipment.



**The proper use and installation of all Police Lightz products is important to guarantee that you get full use from safety product. It is important that the installer and user read and follow all instructions shipped with this product.**

#### Before Installation and/or Service

- To prevent damage to products, please ensure that all equipment operates properly before installation. Also carefully plan where to mount and wire the equipment.
- Verify that the lightbar and mounting hardware fit the vehicle (*Note: Universal brackets may not fit the vehicle perfectly*).
- Determine the location to mount the equipment, locate the route for wiring the equipment power cable, locate the route for the function cable.
- The LEDs and lighting components of this equipment including but not limited to the LEDs, strobe tubes, lenses and housing get hot during operations. Please allow all components to cool before installing and/or servicing equipment.

#### *LED & Light Warning*

- This equipment produces bright lights that can be hazardous to your eyesight when viewed within close proximity and/or for extended periods of time. Do not stare directly into this emergency lighting equipment within close proximity and/or for extended periods of time as permanent damage to your eyesight may occur.
- Do not install this or any emergency lighting equipment in an area that would block and/or interfere with the operator's driving ability. Care should be taken to make sure that components of the vehicle are not blocking the warning equipment to ensure maximum visibility from all directions.

#### *Electrical & Wiring Warning*

- Public safety and warning equipment require high electrical voltages. Ensure that all wiring and connections are properly protected/insulated.

- Good electrical connections to chassis positive and ground are necessary for optimum efficiency. Separate positive and ground connections must be made. Ensure that all wires are rated correctly to handle the amperage requirements of the requirement.

#### **During Installation and/or Service**

- Ensure that all equipment and wiring do not interfere with any airbag equipment or its ability to function properly.
- Separate all equipment from two-way radio equipment even if the equipment is equipped with the proper insulation. To avoid interference with some equipment make sure that the two-way radio antennas are a minimum of 50 cm away from warning equipment.
- Do not connect the equipment to the battery until all other connections have been made and tested to ensure no shorts in the system exist.
- If mounting the equipment requires that the installer drills holes, the installer must make sure that no vehicles components can be damaged during the drilling process. To prevent electrical shorts or damage to any of the equipment components ensure that all drilled holes have grommets installed. Also ensure that all mounting screws and components do not damage any of the wires.
- During the drilling process ensure that metal shaving do not get inside the equipment. Metal shavings can damage the internal wiring and parts of the equipment.
- Locate the control equipment so that the user can safely operate the vehicle and the emergency equipment under all driving conditions.

#### **After Installation and/or Service**

- Test all equipment to ensure that all functions work properly. Check to make sure that during the installation of the equipment no systems or parts of the vehicle were damaged or altered.

**Failure to follow all safety warnings and instructions located in this manual may result in damage to the equipment and/or vehicle, serious injury or death. Please retain this user manual for future reference.**

## CHAPTER 2

### **Introduction to the Police Lightz Linear Slim Pro Light Bar Series**

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The Police Lightz Linear Slim Pro series is an exterior, roof mounted 360 degree warning light system that can be utilized by professionals in a wide range of industries. The Linear Slim Pro series is currently available in 40", 48" & 55" models with universal or vehicle specific mounting equipment.

#### **Features & Options**

The Police Lightz Linear Slim Pro LED Light bar series comes standard with 33 self contained warning patterns. The Linear Slim Pro 40" contains a total of 16 warning modules, the Linear Slim Pro 48" contains a total of 20 warning modules and the Linear Slim Pro 55" contains a total of 24 warning modules. All models have the ability to have two takedowns and also come standard with two endcaps, each containing 3 Generation III 1-watt LEDs. The light bar comes in standard color configurations of amber, red, blue or red/blue but colors can also be customized per module.

#### Features:

- Color options: Amber, Red, Blue, Red/Blue or custom color configuration
- 33 Flash Patterns including steadyburn
- Integrated arrowstick

#### Technical Specifications:

- Dimensions: 39.4"L x 4.9"W x 1.8"H
- Dimensions: 47.8"L x 4.9"W x 1.8"H
- Dimensions: 55"L x 4.9"W x 1.8"H
- Weight: 17 lbs.
- Weight: 22 lbs.
- Weight: 28 lbs.
- Wire Harness: 13'
- Universal Mounting Equipment (*Vehicle specific mounting hardware is available separately*).

## CHAPTER 3

### Installing the Police Lightz Linear Slim Pro Series

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After unpacking the Police Lightz Linear Slim Pro, carefully inspect the unit for damage that may have occurred during transit. If any damage is found report the damage to the carrier and keep the original shipping carton until the claim has been resolved and do not install the product. Contact your dealer or distributor to find out how to resolve the issue beyond what the shipping carrier handles. If you are missing parts, contact customer service at 888-250-4144.

Test the unit before installation. To test the unit touch the black wire to the ground and the other wires to the +12 volt DC on the automotive battery. If any problems occur at this point do not install the light bar and contact the factory at 888-250-4144.



**Only use the mounting equipment and screws supplied with the unit. Installing this unit with non-factory equipment or modifying the mounting equipment may result in damage to the unit and the loss of warranty coverage.**

**IMPORTANT:** Plan all cable routing before beginning the installation of this unit. Ensure that the light system controls for this unit are located in a place where they do not interfere with any vehicle safety equipment and where the control can be safely operated by the end user under all driving conditions. Failure to do so can result in driver errors while operating the vehicle.

#### Preparing to Install Mounting Feet



**Use proper lifting techniques when removing or installing this product. Improper lifting techniques and avoiding this warning could result in personal injury.**

1. Place the lightbar with the smooth surface (top) of the light bar facing up on soft rags or cardboard material to avoid scratching or denting of the aluminum housing.
2. Remove each endcap by removing the four screws on each endcap. There are two screws on the top and two screws on the bottom of each endcap.
3. After installing the mounting feet position the endcaps back in the appropriate location and attach to the body of the bar with the four screws.

#### Installing the Mounting Feet

1. Place the lightbar upside down on soft rags or cardboard material to avoid scratching or denting of the aluminum housing.



2. Take the mounting foot and insert four bolts (eight total) through the four access holes on the mounting foot surface plate.
3. Position the four bolts at the opening to the mounting track and slide the mounting foot into the desired location on the track.
4. Install four flat washers, lock washer and nuts on the bolts, leaving the bolts just loose enough to reposition the mounting foot if necessary. Do not tighten the nuts yet.
5. Repeat this process for the second mounting foot.

### **Installing the Lightbar on the Vehicle Roof**

1. Place the lightbar on the vehicle roof in the desired location. The lightbar is usually centered on the door center post (B-pillar).
2. Adjust both mounting feet in or out as necessary until the foot pads rest near the edge of the roof or gutter where the roof is the most rigid. Make sure that the lightbar and the mounting feet are centered left to right on the vehicle.
3. Check that the lightbar is level by shifting the lightbar slightly forward or back.
4. Carefully remove the lightbar from the vehicle roof and place it upside down on soft rags or cardboard material to avoid scratching or denting to the aluminum housing. Ensure that the mounting feet do not shift their position.
5. Tighten the nuts that secure the mounting feet in place to the lightbar.

### **Installing the Universal or Vehicle Specific Mounting Bracket**

1. Place the lightbar on the vehicle roof. The assembly is usually centered over the B-pillar.
2. Determine where the mounting bracket will attach to the vehicle.
3. Place the mounting bracket on the roof sheet metal.
4. Place the mounting bolt from the mounting feet through the desired position on the mounting bracket and tighten in place with the flat washer and nut.
5. Secure the mounting bracket to the vehicle using a 5/16" - 18 bolt of the appropriate length.
6. Repeat this process to install the second vehicle mounting bracket.

**IMPORTANT:** Frequently inspect the lightbar, mounting feet and mounting brackets to ensure that all fasteners and brackets are tight.

## CHAPTER 4

### Wiring the Police Lightz Linear Slim Pro Series

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Before wiring the lightbar in the vehicle, ensure that the lightbar is properly installed and secured to the vehicle with the factory included mounting kit.

This lightbar is completely wired at the factory and does not need any additional internal wiring. Most standard functions of this lightbar can be controlled by the factory included control panel/box.

#### **WARNING**

##### **AIRBAG DEPLOYMENT**

**Do not install equipment or route any wiring of this unit where it may interfere with the deployment of the vehicle installed airbag or other safety equipment.**

**Failure to observe this warning may reduce the effectiveness or operation of the airbag and any other vehicle safety equipment and can cause serious injury or death.**

#### **WARNING**

##### **BATTERY WARNING**

**To avoid a battery explosion, disconnect the negative cable first and reconnect it last when installing or maintaining the equipment. Avoid an electrical interference or sparks when connecting the equipment or working near the battery.**

1. Ensure that all lines are properly fused with 15 amp fuse (if required). From the lightbar, route the user control wire harness into the vehicles cab near the eventual location of the factory included control panel/box.
2. Route the power wire harness to the vehicle's battery and connect the red +12 positive wire and black negative wire to the battery.

#### **Mounting and Connecting the Control Panel/Box**

#### **WARNING**

**Light control systems including all control panels/boxes must be located in the vehicle so they can be operated safely under all driving conditions. Light control systems must be positioned so as not to interfere with all vehicle safety equipment.**

1. Prepare the mounting area by ensuring that the quick connect wire harness from the control panel/box reaches the quick connect wire harness from the light bar. Ensure that the mounting area is large enough to fit the control panel/box. The factory included control panel box dimensions are: 6 1/8" x 5" x 2 1/8" not including the mounting bracket.
2. Position the factory included control panel/box mounting bracket in the desired location and mark the location in the vehicle for drilling two holes. Once marked and the holes are drilled install the mounting bracket with the included screws.

3. Connect the wire harness from the control panel/box and the lightbar together before installing the control panel/box to the mounting hardware.
4. Install the control panel box to the mounting hardware using the two factory included bolts and adjust the angle of the control panel/box to desired position before tightening the mounting bolts.

### Wiring to Non-Factory or User Owned Control Panel/Box

**IMPORTANT:** Police Lightz does not provide installation instructions for controllers that do not come with its units. Police Lightz is not responsible and can not guarantee the functionality of this unit with other control systems.

### Hardwiring the Lightbar

**IMPORTANT:** Police Lightz recommends using only the installation equipment and quick connections provided with this unit. If you choose to hardwire this unit Police Lightz is not responsible for any damage to the unit. Any damage done to the unit during custom installation is not covered under any warranty.

1. To hardwire this lightbar to a control system other than the factory included control panel/box remove the quick connector from the wire harness.
2. Choose the functions and connect the appropriate wire to the control system located in your vehicle. Depending on the control system, not all functions may be available or function properly.

Wire Color	Function
Red	Positive VDC
Black	Ground
Light Green	Left Alley
Green	Right Alley
Blue	Takedowns
White	Main Flash Pattern On/Off
Orange	Flash Pattern Selection
Purple	Left Arrow Stick
Grey	Right Arrow Stick
Brown	Center Out Arrow Stick
Light Blue	Change Alley Light/Takedown Flash Pattern

### **Ordering Replacement Parts**

To order replacement parts, please contact your local dealer/distributor unless you purchased the equipment directly from Police Lightz.

### **Customer Support**

Police Lightz.

Phone: 888-250-4144 Option 1

Email: policelightz@gmail.com

Hours: 9:30 AM - 5:00 PM (ET) Monday - Thursday

9:30 AM - 1:00 PM (ET) Friday

### **Technical Support**

If your product is under warranty please contact your local/distributor first. If you purchased the unit directly from Whacker Technologies and are experiencing issues contact:

Technical Support

Police Lightz

Phone: 888-250-4144 Option 2

Email: techsupport@whackerusa.com

Hours: 9:30 AM - 5:00 PM (ET) Monday - Thursday

9:30 AM - 1:00 PM (ET) Friday

### **Returning a Product to Police Lightz**

Before returning a product to Police Lightz call your local dealer or distributor. If you purchased the unit directly from Police Lightz call 888-250-4144 to obtain a Return Merchandise Authorization number (RMA number). To expedite the process please be prepared with the following information:

- Your customer number or account number.
- The order number.
- The quantity of the product being returned.
- Reason for the return.

When you receive your RMA number:

- Write the RMA number on the outside of the box.
- Include the RMA paperwork which will be emailed to you or can be downloaded from our website.
- Write the RMA number down so you can easily check on the status of your equipment.

Send all material with the issued RMA number to:

Police Lightz

1529 Dean Street

Suite 102

Brooklyn, NY 11213

ATTN: Returns Department







**POLICELIGHTZ**

1529 Dean Street, Suite 102 Brooklyn, NY 11213

Phone: 888-250-4144

[www.whackerusa.com](http://www.whackerusa.com)