Automotive: Lightbars

**ENGINEERING COMPANY INC.**

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**For warranty information regarding this product, visit www.whelen.com/warranty**

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**Warnings to Installers**

Whelen’s emergency vehicle warning devices must be properly mounted and wired in order to be effective and safe. Read and follow all of Whelen’s written instructions when installing or using this device. Emergency vehicles are often operated under high speed stressful conditions which must be accounted for when installing all emergency warning devices. Controls should be placed within convenient reach of the operator so that they can operate the system without taking their eyes off the roadway. Emergency warning devices may require high electrical voltages and/or currents. Properly protect and use caution around live electrical connections. Grounding or shorting of electrical connections can cause high current arcing, which can cause personal injury and/or vehicle damage, including fire. Many electronic devices used in emergency vehicles can create or be affected by electromagnetic interference. Therefore, after installation of any electronic device it is necessary to test all electronic equipment simultaneously to insure that they operate free of interference from other components within the vehicle. Never power emergency warning equipment from the same circuit or share the same grounding circuit with radio communication equipment. All devices should be mounted in accordance with the manufacturer’s instructions and securely fastened to vehicle elements of sufficient strength to withstand the forces applied to the device. Driver and/or passenger air bags (SRs) will affect the way equipment should be mounted. This device should be mounted by permanent installation and within the zones specified by the vehicle manufacturer, if any. Any device mounted in the deployment area of an air bag will damage or reduce the effectiveness of the air bag and may damage or dislodge the device. Installer must be sure that this device, its mounting hardware and electrical supply wiring does not interfere with the air bag or the SR wiring or sensors. Mounting the unit inside the vehicle by a method other than permanent installation is not recommended as unit may become dislodged during swerving; sudden braking or collision. Failure to follow instructions can result in personal injury. Whelen assumes no liability for any loss resulting from the use of this warning device. PROPER INSTALLATION COMBINED WITH OPERATOR TRAINING IN THE PROPER USE OF EMERGENCY WARNING DEVICES IS ESSENTIAL TO INSURE THE SAFETY OF EMERGENCY PERSONNEL AND THE PUBLIC.

**Warnings to Users**

Whelen’s emergency vehicle warning devices are intended to alert other operators and pedestrians to the presence and operation of emergency vehicles and personnel. However, the use of this or any other Whelen emergency warning device does not guarantee that you will have the right-of-way or that other drivers and pedestrians will properly heed an emergency warning signal. Never assume you have the right-of-way. It is your responsibility to proceed safely before entering an intersection, driving against traffic, responding at a high rate of speed, or walking on or around traffic lanes. Emergency vehicle warning devices should be tested on a daily basis to ensure that they operate properly. When in actual use, the operator must ensure that both visual and audible warnings are not blocked by vehicle components (i.e.: open trunks or compartment doors), people, vehicles, or other obstructions. It is the user’s responsibility to understand and obey all laws regarding emergency warning devices. The user should be familiar with all applicable laws and regulations prior to the use of any emergency vehicle warning device. Whelen’s audible warning devices are designed to project sound in a forward direction away from the vehicle occupants. However, because sustained periodic exposure to loud sounds can cause hearing loss, all audible warning devices should be installed and operated in accordance with the standards established by the National Fire Protection Association.

**Safety First**

This document provides all the necessary information to allow your Whelen product to be properly and safely installed. Before beginning the installation and/or operation of your new product, the installation technician and operator must read this manual completely. Important information is contained herein that could prevent serious injury or damage.

⚠️ **WARNING:** This product can expose you to chemicals including Methylene Chloride which is known to the State of California to cause cancer, and Bisphenol A, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

- Proper installation of this product requires the installer to have a good understanding of automotive electronics, systems and procedures.
- Whelen Engineering requires the use of the waterproof butt splices and/or connectors the that connector could be exposed to moisture.
- Any holes, either created or utilized by this product, should be made both air- and watertight using a sealant recommended by your vehicle manufacturer.
- Failure to use specified installation parts and/or hardware will void the product warranty.
- If mounting this product requires drilling holes, the installer MUST be sure that no vehicle components or other vital parts could be damaged by the drilling process. Check both sides of the mounting surface before drilling begins. Also de-burr the holes and remove any metal shards or remnants. Install grommets into all wire passage holes.
- If this manual states that this product may be mounted with suction cups, magnets, tape or Velcro®, clean the mounting surface with a 50/50 mix of isopropyl alcohol and water and dry thoroughly.
- Do not install this product or route any wires in the deployment area of your air bag. Equipment mounted or located in the air bag deployment area will damage or reduce the effectiveness of the air bag and may damage or dislodge the device. Installer must be sure that this device, its mounting hardware and electrical supply wiring does not interfere with the air bag or the SR wiring or sensors. Mounting the unit inside the vehicle by a method other than permanent installation is not recommended as unit may become dislodged during swerving; sudden braking or collision. Failure to follow instructions can result in personal injury. Whelen assumes no liability for any loss resulting from the use of this warning device. PROPER INSTALLATION COMBINED WITH OPERATOR TRAINING IN THE PROPER USE OF EMERGENCY WARNING DEVICES IS ESSENTIAL TO INSURE THE SAFETY OF EMERGENCY PERSONNEL AND THE PUBLIC.

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**Installation Guide:**

DUO™ Responder® LP Heavy-Duty L1N6™ Lightbar  
Model RDLPKPY

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**Form No.14971 (021116)**
**Pattern List:**

**SYNC Patterns**
1. SignalAlert™ 75 PH-1
2. SignalAlert™ 75 PH-2
3. CometFlash® 75 PH-1
4. CometFlash® 75 PH-2
5. DoubleFlash 75 PH-1 (CA)
6. DoubleFlash 75 PH-2 (CA)
7. SingleFlash 75 PH-1 (CA)
8. SingleFlash 75 PH-2 (CA)
9. ComAlert™ 75 PH-1
10. ComAlert™ 75 PH-2
11. LongBurst™ 75 PH-1
12. LongBurst™ 75 PH-2
13. PingPong™ 75 PH-1
14. PingPong™ 75 PH-2
**Non-SYNC Patterns**
15. SingleFlash 60 (CA)
16. SingleFlash 90 (CA)
17. SingleFlash 120 (CA)
18. SingleFlash 300
19. DoubleFlash 150
20. ComAlert™ 150
21. ActionFlash 50
22. ActionFlash 150
23. ModuFlash™
24. FilmFlam
25. DoubleFlash 120 (CA)
26. PingPong™ 120 (CA)
27. TripleFlash™ 75 (CA)
28. TripleFlash™ 120 (CA)
29. SignalAlert™ CAL (CA)
30. ActionFlash™ 60/120 (CA)
31. ActionFlash™ 75/120 (CA)
32. CalScan™ (CA)
33. 90 RPM
34. 118 RPM
35. 150 RPM
36. ActionScan™

(01) = California Title XIII Compliant

**WHT/VIo - Scan-Lock™ / Flash Pattern Selection:** To operate Scan-Lock™ switch the lightbar on.

**TO CHANGE PATTERNS:** To cycle forward to the next available pattern apply +12 volts to the WHT/VIo wire for less than 1 second and release. To cycle back to the previous pattern apply +12 volts to the WHT/VIo wire (or press the momentary switch) for more than 1 second and release.

**TO CHANGE THE DEFAULT PATTERN:** When the desired pattern is displayed, allow it to run for more than 5 seconds. The lightbar will now display this pattern when activated.

**TO RESTORE THE FACTORY DEFAULT PATTERN:** With power to the lightbar off, apply +12 volts to the WHT/VIo wire. With power applied to Scan-Lock™ turn power to the lightbar on. The factory default pattern will be displayed.

A normally open momentary switch (Customer supplied) can be used to control Scan-Lock™ operation.

**IMPORTANT!** The lightbar should be located a minimum of 16" from any radio antennas!

**WARNING!** All customer supplied wires that connect to the battery must be sized to supply at least 125% of the maximum operating current and fused at the battery to carry the load. DO NOT USE CIRCUIT BREAKERS WITH THIS PRODUCT!

**IMPORTANT WARNING!**

**CAUTION! DO NOT LOOK DIRECTLY AT THESE LED’S WHILE THEY ARE ON. MOMENTARY BLINDNESS AND OR EYE DAMAGE COULD RESULT!**

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