

51 Winthrop Road
Chester, Connecticut 06412-0684
Phone: (860) 526-9504
Fax: (860) 526-4078
Sales Email: autosale@whelen.com
Canadian Sales: canadiansales@whelen.com
Customer Service: custserv@whelen.com

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.

- Proper installation of this product requires the installer to have a good understanding of automotive electronics, systems and procedures.
- Whelen Engineering recommends the use of waterproof butt splices and/or connectors if that connector could be exposed to moisture.
- 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 any holes and remove any metal shards or remnants. Install grommets into all wire passage holes.
- 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, or become a projectile that could cause serious personal injury or death. Refer to your vehicle owner's manual for the air bag deployment area. The User/Installer assumes full responsibility to determine proper mounting location, based on providing ultimate safety to all passengers inside the vehicle.
- For this product to operate at optimum efficiency, a good electrical connection to chassis ground must be made. The recommended procedure requires the product ground wire to be connected directly to the **NEGATIVE (-)** battery post.
- If this product uses a remote device to activate or control this product, make sure that this control is located in an area that allows both the vehicle and the control to be operated safely in any driving condition.
- Do not attempt to activate or control this device in a hazardous driving situation.
- This product contains either strobe light(s), halogen light(s), high-intensity LEDs or a combination of these lights. Do not stare directly into these lights. Momentary blindness and/or eye damage could result.
- Use only soap and water to clean the outer lens. Use of other chemicals could result in premature lens cracking (crazing) and discoloration. Lenses in this condition have significantly reduced effectiveness and should be replaced immediately. Inspect and operate this product regularly to confirm its proper operation and mounting condition. Do not use a pressure washer to clean this product.
- **WARNING!** All customer supplied wires that connect to the positive (+) terminal of the battery must be sized to supply at least 125% of the maximum operating current and **FUSED** "at the battery" to carry that load. **DO NOT USE CIRCUIT BREAKERS WITH THIS PRODUCT!**
- **FAILURE TO FOLLOW THESE PRECAUTIONS AND INSTRUCTIONS COULD RESULT IN DAMAGE TO THE PRODUCT OR VEHICLE AND/OR SERIOUS INJURY TO YOU AND YOUR PASSENGERS!**

Wiring:

Ground (BLK or BLK/WHT): Extend this wire to chassis ground.

Warning Light (RED/WHT, WHT/RED, ORG, BLU, WHT, GRN, YEL or RED):

Extend this wire to +VBAT via a customer supplied SP/ST switch. Fuse this wire @ 3 Amps.

SYNC (GREY): To SYNC two lighthead, configure both lighthead to display the same Phase 1 pattern. Turn power off and connect the GRY wire from each lighthead together. Activate the lighthead and their patterns will be synchronized. To configure the lighthead to alternate their patterns, advance either lighthead to Phase 2 of the current pattern.
If the SYNC feature is not used, the GREY wire should be capped and insulated.

Scan-Lock™ (WHT/VIO): Extend this wire to +VBAT via a customer supplied Normally Open momentary switch. Fuse this wire @ 1 Amps.

To Change Patterns: To advance to the next pattern, apply +VBAT to the WHT/VIO wire for less than 1 second and release. To cycle back to the previous pattern, apply +VBAT to the WHT/VIO wire 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 warning lights will now display this pattern when initially activated.

To Restore The Factory Default Pattern: With the power to the warning lights off, apply +VBAT to the WHT/VIO wire. With the WHT/VIO wire still activated, turn power to the warning lights on.

SYNC Operation (SPLIT-LED models): Some of the patterns available for the standard SYNC lighthead are described as being either Phase 1 (PH.1) or Phase 2 (PH.2), Phase 3 (PH.3) or Phase 4 (PH.4). These terms define how patterns on lighthead with their SYNC wires connected relate to each other. Lighthead configured to display the same Phase of a given pattern will flash simultaneously. Lighthead configured to Phase 1 of a given pattern will alternate with Phase 2 lighthead

BOLD = California Title XIII Compliant Pattern *Italic = SYNC Patterns*
PHASE 1 alternates with PHASE 2
PHASE 3 alternates with PHASE 4

Split LED Patterns

1. SignalAlert™ 75	<i>PH.1</i>	24. <i>LongBurst 75</i>	<i>PH.4</i>	47. ModuFlash™	ALT
2. SignalAlert 75	<i>PH.2</i>	25. PingPong™ 75	<i>PH.1</i>	48. ModuFlash	SIM
3. SignalAlert 75	<i>PH.3</i>	26. PingPong 75	<i>PH.2</i>	49. DoubleFlash 120	ALT
4. SignalAlert 75	<i>PH.4</i>	27. PingPong 75	<i>PH.3</i>	50. DoubleFlash 120	SIM
5. CometFlash® 75	<i>PH.1</i>	28. PingPong 75	<i>PH.4</i>	51. PingPong™ 120	ALT
6. CometFlash 75	<i>PH.2</i>	29. <i>SSNF 75</i>	<i>PH.1</i>	52. PingPong 120	SIM
7. CometFlash 75	<i>PH.3</i>	30. <i>SSNF 75</i>	<i>PH.2</i>	53. TripleFlash™ 75	ALT
8. CometFlash 75	<i>PH.4</i>	31. SingleFlash 60	ALT	54. TripleFlash 75	SIM
9. DoubleFlash 75	<i>PH.1</i>	32. SingleFlash 60	SIM	55. TripleFlash 120	ALT
10. DoubleFlash 75	<i>PH.2</i>	33. SingleFlash 90	ALT	56. TripleFlash 120	SIM
11. DoubleFlash 75	<i>PH.3</i>	34. SingleFlash 90	SIM	57. SigAlert Cal.™	ALT
12. DoubleFlash 75	<i>PH.4</i>	35. SingleFlash 120	ALT	58. SigAlert Cal.	SIM
13. SingleFlash 75	<i>PH.1</i>	36. SingleFlash 120	SIM	59. Action 1	ALT
14. SingleFlash 75	<i>PH.2</i>	37. SingleFlash 300	ALT	60. Action 1	SIM
15. SingleFlash 75	<i>PH.3</i>	38. SingleFlash 300	SIM	61. Action 2	ALT
16. SingleFlash 75	<i>PH.4</i>	39. DoubleFlash 150	ALT	62. Action 2	SIM
17. ComAlert™ 75	<i>PH.1</i>	40. DoubleFlash 150	SIM	63. CalScan™	ALT/SIM
18. ComAlert 75	<i>PH.2</i>	41. ComAlert150	ALT	64. ActionScan™	ALT/SIM
19. ComAlert 75	<i>PH.3</i>	42. ComAlert150	SIM	65. SteadyFlash 60	
20. ComAlert 75	<i>PH.4</i>	43. ActionFlash™50	ALT	66. SteadyFlash 75	
21. LongBurst™ 75	<i>PH.1</i>	44. ActionFlash50	SIM	67. SteadyFlash 90	
22. LongBurst 75	<i>PH.2</i>	45. ActionFlash150	ALT	68. SteadyFlash 120	
23. LongBurst 75	<i>PH.3</i>	46. ActionFlash150	SIM	69. Steady & Steady	

Solid LED Patterns:

SYNC	Non-SYNC
1. <i>SignalAlert™ 75</i> PH.1	15. SingleFlash 60
2. <i>SignalAlert 75</i> PH.2	16. SingleFlash 90
3. <i>CometFlash® 75</i> PH.1	17. SingleFlash 120
4. <i>CometFlash 75</i> PH.2	18. SingleFlash 300
5. DoubleFlash 75 PH.1	19. DoubleFlash 150
6. DoubleFlash 75 PH.2	20. ComAlert 150
7. SingleFlash 75 PH.1	21. ActionFlash 1
8. SingleFlash 75 PH.2	22. ActionFlash 2
9. <i>ComAlert™ 75</i> PH.1	23. ModuFlash
10. <i>ComAlert 75</i> PH.2	24. ActionScan
11. <i>LongBurst™ 75</i> PH.1	25. Steady
12. <i>LongBurst 75</i> PH.2	
13. <i>PingPong™ 75</i> PH.1	
14. <i>PingPong 75</i> PH.2	

It is the responsibility of the installation technician to make sure that the installation and operation of this product will not interfere with or compromise the operation or efficiency of any vehicle equipment!

Before returning the vehicle to active service, visually confirm the proper operation of this product, as well as all vehicle components/equipment.

