

INSTALLATION & OPERATION MANUAL



LED VISOR LIGHT

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IMPORTANT:

Read all instructions and warnings before installing and using.

INSTALLER: This manual must be delivered to the end user of this equipment.

Introduction:

The LED Visor Light is a new visor mounted light that incorporates (2) PAR36 modules. The LED based warning light modules contain state-of-the-art high intensity LEDs. These products provide twenty six different operation modes including a steady-burn mode. The LED Visor Light is SAE J595 compliant and CA Title 13 compliant when the proper flash pattern is selected (see table below).

WARNING!



This Product contains high intensity LED devices. To prevent eye damage, DO NOT stare into light beam at close range.



WARNING!

The use of this or any warning device does not insure that all drivers can or will observe or react to an emergency warning signal. Never take the right-of-way for granted. It is your responsibility to be sure you can proceed safely before entering an intersection, driving against traffic, responding at a high rate of speed, or walking on or around traffic lanes.

The effectiveness of this warning device is highly dependent upon correct mounting and wiring. Read and follow the manufacturer's instructions before installing or using this device. The vehicle operator should insure daily that all features of the device operate correctly. In use, the vehicle operator should insure the projection of the warning signal is not blocked by vehicle components (i.e.: open trunks or compartment doors), people, vehicles, or other obstructions. This equipment is intended for use by authorized personnel only. It is the user's responsibility to understand and obey all laws regarding emergency warning devices. The user should check all applicable city, state and federal laws and regulations.

Code 3, Inc., assumes no liability for any loss resulting from the use of this warning device.

Proper installation is vital to the performance of this warning device and the safe operation of the emergency vehicle. It is important to recognize that the operator of the emergency vehicle is under psychological and physiological stress caused by the emergency situation. The warning device should be installed in such a manner as to: A) Not reduce the output performance of the system, B) Place the controls within convenient reach of the operator so that he can operate the system without losing eye contact with the roadway.

Emergency warning devices often 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 severe vehicle damage, including fire.

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.

Features and Specifications:

5 3/8" tall x 11" wide x 1" thick --- weight = 1.4 lbs

Operating Voltage: DC10V-30V, Reverse Polarity¹ Protected

Flash Rate: 70 fpm minimum

Flash Modes:

PATTERN NO.	PATTERNS	SYNCHRONIZE
1	SINGLE FLASH 75FPM PHASE 1	YES
2	SINGLE FLASH 75FPM PHASE 2	YES
3	SINGLE FLASH 120FPM PHASE 1	YES
4	SINGLE FLASH 120FPM PHASE 2	YES
5	SINGLE FLASH 375FPM PHASE 1	YES
6	SINGLE FLASH 375FPM PHASE 2	YES
7	DOUBLE FLASH 75FPM PHASE 1	YES

PATTERN NO.	PATTERNS	SYNCHRONIZE
8	DOUBLE FLASH 75FPM PHASE 2	YES
9	DOUBLE FLASH 130FPM PHASE 1	YES
10	DOUBLE FLASH 130FPM PHASE 2	YES
11	TRIPLE FLASH 75FPM PHASE 1	YES
12	TRIPLE FLASH 75FPM PHASE 2	YES
13	QUAD FLASH 75FPM PHASE 1	YES
14	QUAD FLASH 75FPM PHASE 2	YES
15	QUAD FLASH 150FPM PHASE 1	YES
16	QUAD FLASH 150FPM PHASE 2	YES
17	FIVE FLASH 150FPM PHASE 1	YES
18	FIVE FLASH 150 FPM PHASE 2	YES
19	QUAD FLASH 75FPM NFPA	NO
20	SINGLE FLASH 75FPM, T13	NO
21	DOUBLE FLASH 75FPM, T13	NO
22	MODUFLASH SIM.	NO
23	ACTION FLASH	NO
24	AUTORUN (RANDOM)	NO
25	STEADY BURN	NO
26	OFF	NO

	Flashing Current Draw:	Steady Burn Current Draw:
Red/Amber:	.85A Avg. each lamp	.85A Avg. each lamp
Blue/White:	1.0A Avg. each lamp	1.0A Avg. each lamp

Available colors - Red, Amber or Blue

Installation:

This unit is designed to be mounted on the vehicle's OEM sun visors via the adjustable attachment straps.

Wiring:

The LED Visor Light simply plugs into any standard 12/24VDC cigarette lighter socket. The plug has a 4 amp fuse inside.



WARNING!

If the product is to be used inside the vehicle, it may cause severe personal injury if not properly mounted and secured. Objects used in vehicle may become airborne during a collision or other sudden changes in vehicle speed or direction, such as braking, acceleration or turns.

Setting the Flash Pattern:

Push and hold either of the white oblong buttons in the center of the Visor Light as follows

- Less than 1 second for the NEXT pattern
- 1 to 3 seconds for the PREVIOUS pattern
- 3 to 5 seconds for the P13 QUAD FLASH 75FPM PHASE 1 pattern
- Greater than 5 seconds to TURN OFF the LED Light Head

Synchronization:

The (2) Par 36 lightheads in the LED Visor Light are synchronized from the factory. To configure the two light-heads to alternate their patterns, advance the pattern of either beacon to the Phase 2 mode of the current pattern. Please note that some flash patterns do not synchronize well together due to the timing required between flash sequences. The user should visually confirm that the selected flash patterns are providing the desired result.

Maintenance:

The LED Visor Light with PAR36 Modules is designed to be maintenance free. Refer to the guide below for help with troubleshooting. Should the unit be diagnosed as malfunctioning, remove unit and replace with a new module.

WARNING!



LED module housings may become hot with extended use. Allow modules to cool completely before attempting to remove.

TROUBLESHOOTING		
Problem	Probable Cause	Remedy
Lighthead does not activate	a. No power to unit	a. Check wire for loose connection
	b. Power input wire reversed	b. Reverse power wires
	c. Damaged or shortaged cabling	c. Check cables for damage
	d. Defective lighthead	d. Replace lighthead module
Lighthead is constantly ON	a. Control wire permanently grounded or shorted to GND	a. Avoid permanent grounding of control wire

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WARRANTY

Code 3, Inc.'s L.E.D. emergency devices are tested and found to be operational at the time of manufacture. Provided they are installed and operated in accordance with manufacturer's recommendations, Code 3, Inc. guarantees all parts and components except the lamps to a period of 1 year, LED Lighthouse modules to a period of 5 years (unless otherwise expressed) from the date of purchase or delivery, whichever is later. Units demonstrated to be defective within the warranty period will be repaired or replaced at the factory service center at no cost.

Use of lamp or other electrical load of a wattage higher than installed or recommended by the factory, or use of inappropriate or inadequate wiring or circuit protection causes this warranty to become void. Failure or destruction of the product resulting from abuse or unusual use and/or accidents is not covered by this warranty. Code 3, Inc. shall in no way be liable for other damages including consequential, indirect or special damages whether loss is due to negligence or breach of warranty.

CODE 3, INC. MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY INCLUDING, WITHOUT LIMITATION, WARRANTIES OF FITNESS OR MERCHANTABILITY, WITH RESPECT TO THIS PRODUCT.

PRODUCT RETURNS

If a product must be returned for repair or replacement*, please contact our factory to obtain a Return Goods Authorization Number (RGA number) before you ship the product to Code 3, Inc. Write the RGA number clearly on the package near the mailing label. Be sure you use sufficient packing materials to avoid damage to the product being returned while in transit.

*Code 3, Inc. reserves the right to repair or replace at its discretion. Code 3, Inc. assumes no responsibility or liability for expenses incurred for the removal and/or reinstallation of products requiring service and/or repair; nor for the packaging, handling, and shipping; nor for the handling of products return to sender after the service has been rendered.



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