CANNON®

ENGINEERING EXCELLENCE



H-2219

INSTRUCTION MANUAL

MADE IN THE USA

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5 & 10 DAY LEAD TIMES

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SAFETY REGULATIONS & WARRANTY

SAFETY REGULATIONS

The following provides all the information necessary to safely operate the previously listed products of Feniex Industries, Inc. Please read this manual thoroughly before installing or operating your new product in order to prevent any damage or injury. Failure to follow the listed instructions in this manual may result in damage to your products or personal injury.

- Proper installation of this product requires good knowledge of automotive systems, electronics & procedures.
- Please guarantee all vital components of the vehicle are not in danger of being damaged by drilling holes necessary for installation. Check all sides of the mounting surface before drilling any holes into the vehicle.
- Do not install this product in any way that interferes with the deployment of the air bag. Doing so may damage the effectiveness of the air bag & can lead to serious personal and vehicle injury. The installer will assume full responsibility of proper installation of the new unit.
- Please clean the mounting surface before installation of the unit when using tape, brackets, magnet, Velcro or suction cups.
- The product's ground wire must be connected directly to the negative (-) battery post for effective use of the unit. Please follow all wiring guidelines provided to guarantee long lifespan & productivity. Failing to follow these instructions may result in damage to the product.

WARRANTY

Feniex Industries, Inc. warrants to the original purchaser that the product shall be free from defects in material & workmanship for 5 years from the date of purchase for all LED products. Feniex Industries warranties speakers, sirens, flashers, & controllers for 2 years.

If warranty service is needed, please contact customer support:

Phone: 1.800.615.8350
Web Site: www.Feniex.com/support
Email: techsupport@feniex.com

If the product needs to be returned for repair or replacement, contact our customer service team (using any method listed above) to receive a Return Merchandise Authorization (RMA) number. Operational times are from 9 a.m. to 6 p.m. central time, Monday through Friday.

Please do not send in product without contacting support first for a Return Merchandise Authorization (RMA) number.

CONDITIONS

Feniex Industries, Inc. will not be held responsible for any costs associated with equipment removal and/or re-installation resulting from a warranty claim. It is the sole responsibility of the party initiating a warranty claim to pay shipping charges associated with returning a product to Feniex Industries for repair or replacement.

SERVICE AFTER EXPIRATION

Feniex Industries will still provide service for all products after expiration of the warranty. For any issues, call the customer support line. In some instances it may be necessary for the product to be shipped, freight prepaid and insured for loss or damage to Feniex headquarters.

Utilizing non-factory screws and mounting brackets may result in the loss of warranty coverage.

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BOX CONTENTS, SPECIFICATIONS, & DIMENSIONS

COMPONENTS	QUANTITY
1. Cannon	1
2. Screws	2
3. Gasket	1



SYSTEM SPECIFICATIONS

Input Power	12 VDC
Current Draw	1 Amp
External Fuse	125% of Circuit Load
Colors	R, A, B, W, RW, BW, AW, RB, RA, BA
SAE Certification	J595, CT13, SAE J1113-11
Flash Patterns	14 Single Color, 39 Dual Color
Dimensions	1" H x 1" L x 1.59" W
Light Spread	120° or 360° [Interchangeable]
Mounting	1" Hole or Surface Mount Bezel
Warranty	5 Years

SINGLE COLOR FLASH PATTERNS	FLASH RATE:
Single Slow	75 FPM
Single Fast	120 FPM
Single Combo	75 FPM/120 FPM
Double Slow	75 FPM
Double Fast	75/120 FPM
Double Combo	
Triple Slow	75 FPM
Triple Fast	120 FPM
Triple Combo	75/120 FPM
Attack 1	N/A
Attack 2	N/A
Brake Pop	N/A
Steady On (12 LED/6 LED)	N/A
Steady On (6 LED)	N/A
Steady On Dim (25%)	N/A

DUAL COLOR FLASH PATTERNS	FLASH RATE:
Color 1: Single Slow	75 FPM
Color 1: Single Fast	120 FPM
Color 1: Single Combo	75 FPM/120 FPM
Color 1: Double Slow	75 FPM
Color 1: Double Fast	120 FPM
Color 1: Double Combo	75/120 FPM
Color 1: Triple Slow	75 FPM
Color 1: Triple Fast	120 FPM
Color 1: Triple Combo	75/120 FPM
Attack 1	N/A
Attack 2	N/A
Color 2: Single Slow	75 FPM
Color 2: Single Fast	120 FPM
Color 2: Single Combo	75 FPM/120 FPM
Color 2: Double Slow	75 FPM
Color 2: Double Fast	120 FPM
Color 2: Double Combo	75/120 FPM
Color 2: Triple Slow	75 FPM
Color 2: Triple Fast	120 FPM
Color 2: Triple Combo	75/120 FPM
Color 2: Attack 1	N/A
Color 2: Attack 2	N/A
Color 1 & 2: Single Slow	75 FPM
Color 1 & 2: Single Fast	120 FPM
Color 1 & 2: Single Combo	75 FPM/120 FPM
Color 1 & 2: Double Slow	75 FPM
Color 1 & 2: Double Fast	120 FPM
Color 1 & 2: Double Combo	75/120 FPM
Color 1 & 2: Triple Slow	75 FPM
Color 1 & 2: Triple Fast	120 FPM
Color 1 & 2: Triple Combo	75/120 FPM
Color 1 & 2: Attack 1	N/A
Color 1 & 2: Attack 2	N/A
Color 1: Steady On (12 LED/6 LED)	N/A
Color 1: Steady On (6 LED)	N/A
Color 1: Steady On Dim (25%)	N/A
Color 2: Steady On (12 LED/6 LED)	N/A
Color 2: Steady On (6 LED)	N/A
Color 2: Steady On Dim (25%)	N/A

WIRING, CONFIGURATION, & MOUNTING INSTRUCTIONS

WIRING DIAGRAM

COLOR	FUNCTION	POLARITY	CONNECTION
Red	Mode 1	12v (+)	Latching Switch
Yellow	Mode 2	12v (+)	Latching Switch
Green	Mode 3	12v (+)	Latching Switch
Blue	Pattern	12v (-)	Momentary Switch
Black	Ground	12v (-)	Chasis Ground

POWER

1) To power the unit, extend the red wire to a 12v (+) post. Extend the black wire to the ground post of the vehicle's battery.

⚠ To achieve syncronization, the patterns must match on all products connected to the synchornization circuit.

SETTING MASTER/SLAVE

1)Apply 12v (+) power and 12v (-) ground to the unit.

2) For the light heads to alternate, one light head must be set as master and the other set as slave. To do so, hold the blue (flash pattern changer) wire to ground for 3 seconds. If all LEDS turn on, this indicates master mode. If no LEDs activate, this indicates slave mode.

⚠ Each time the master/slave mode is set, the pattern will reset to the default setting (Single Flash [Slow]). This simplifies the process of synchronizing two or more compatible products.

⚠ The Cannon can be synchronized with other compatible products with matching patterns (single color). Consult the instruction manual of each product as the process may differ by model.

PATTERNS & SYNCHRONIZATION

1) Momentarily tap the blue wire to a ground 12v (-) source to cycle through the flash patterns.

2) Synchronization: To synchronize two or more Cannons (or compatible products) together:

A) Choose the desired flash pattern for each unit.

B) Connect the blue wires of the light heads together.

MOUNTING INSTRUCTIONS

1) Place the unit against the selected mounting surface.

2) Mark the areas where the mounting holes will be drilled. If the mounting surface is part of the vehicle, make sure no vital components could be damaged by the drilling process.

3) Drill two mounting holes in the marked surface, as well as a 0.5" diameter hole for wire passage (if mounting on a vehicle). Use the rubber pad to position the 0.5" hole for the wires. Make sure to deburr holes thoroughly. Use a grommet if needed.

4) Pass the wires through the 0.5" diameter hole, and secure the light head to the mounting surface with the provided hardware.

CHANGING THE 120° LENS TO THE 360° LENS

The Cannon has the 120° lens installed when sold. To remove the 120° lens and replace it with the 360° lens and reflector, follow the steps listed below:

1) Remove the 120° lens by pushing the tabs on each side of the bottom of the LED heatsink towards the center of the cannon with a flat screwdriver. The lens will gently pop off. Please do not remove the o-ring from the heatsink.

2) Place the chrome reflector over the screw head, ensuring that the center hole of the reflector covers the screw head.

3) Place supplied o-ring on top of chrome reflector.

4) Then add the 360° lens to the assembly, by pushing the tabs on each end of the lens through the heatsink. Be sure the tabs engage the heatsink.

