

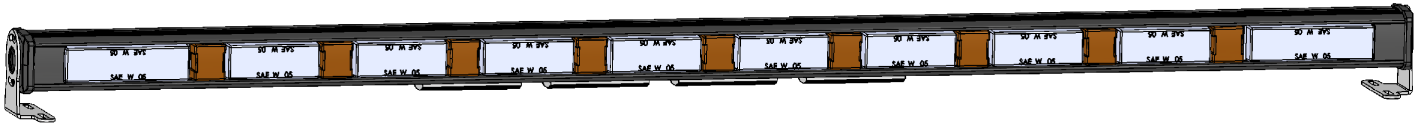
# **CODE 3<sup>®</sup>** **A PUBLIC SAFETY EQUIPMENT COMPANY**

WWW.CODE3PSE.COM

ST LOUIS, MO 63114

For Technical Support/Service Call (314)-996-2700

## **XT310AS LED WARNING LIGHTS**



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### **Safety Warnings**

**WARNING!**



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

The use of this or any warning device does not ensure 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. Any electronic device may create or be affected by electromagnetic interference. After installation of any electronic device operate all equipment simultaneously to insure that operation is free of interference. 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 SRS 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. **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.**



**IMPORTANT:** Please be sure to check that the product is properly fused. **Installing the XT310 LED light without the appropriate fuse will void the warranty.**

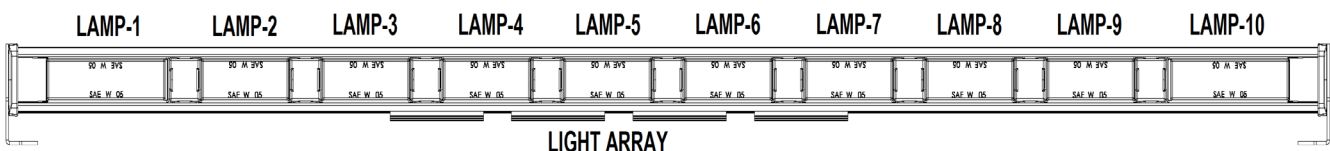
## Specifications XT310AS

Input Voltage.....	11-30VDC
Peak Input Current.....	4 Amp
Output Power.....	.24 W
Flash Patterns.....	32
Fuse(User supplied).....	.5A
STORAGE TEMPERATURE RANGE.....	- 40 to + 90 Degrees C

## Mounting

Mount the XT310 LED light using the brackets supplied and user supplied mounting screws.

**CAUTION:** Be certain that you have selected a mounting location that does not obstruct the driver's vision and allows safe operation of the vehicle. Check the chosen mounting location to ensure that the vehicle's structure and material is adequate to support the weight of your light.



# Wiring - XT310 Arrow Stick LED WARNING LIGHTS - OPERATION

**Red wire to + 12V Power Input---Black wire to GND**

<b>OFF Mode</b>	Red wire to +12V Black wire to GND	OFF Mode - all LED's will be Off
<b>Dim Mode</b>	Operation: Connect Green Wire to + Power (+12V) Dim mode will operate In any mode	Brightness will be reduced
<b>Warning Mode</b> (Only left end & right end light heads 2 total will flash 8 amber light heads will not flash)	Operation: Connect Blue wire to + Power (+12V) Pattern change operation: Touch Brown wire to Blue wire to + Power (+12V) (for less than 3 seconds)	Left end and right end light heads will flash Flash pattern change 10 different flash patterns
<b>Warning Mode</b> 10 light heads	Operation 1 : Connect Orange wire to + Power (+12V) Operation 2: Connect Orange wire + Blue wire to + Power (+12V) Pattern change operation: Touch Brown wire to + Power (+12V) (For less than 3 seconds) <b>Memorized preset Warning Mode: Operation as shown below</b> Touch Brown wire + Orange wire to + Power (+12V) (longer than 3 seconds) Touch Brown wire to Blue + Orange wire to + Power (+12V) (For longer than 3 seconds)	Preset in Warning Mode 1 <b>Emergency Flashing Mode 1</b> Preset in Warning Mode 2 <b>Emergency Flashing Mode 2</b> Warning Mode flash pattern change.  Memorized preset Warning Mode 1 Memorized preset Warning Mode 2
<b>Traffic Direction Light</b> (Middle 8 Amber light heads)	Connect Red/White wire to + Power (+12V)  Connect Brown/White wire to + Power (+12V)  Connect Red/White wire + Brown/White wire to + Power (+12V) Pattern change operation: Touch Brown wire to + Power (+12V) (For less than 3 seconds) <b>Memorized preset traffic direction Mode: Operation as shown below</b> Touch Brown wire + Red/White wire to + Power (+12V) (For longer than 3 seconds) Touch Brown wire + Brown/White wire to + Power (+12V) (For longer than 3 seconds) Touch Brown wire + Red/White wire + Brown/White wire to + Power (+12V) (For longer than 3 seconds)	Preset in Traffic Direction Mode 1 <b>Left Directional Arrow</b> Preset in Traffic Direction Mode 2 <b>Right Directional Arrow</b> Preset in Traffic Direction Mode 3 <b>Center outward Arrow</b> Traffic Direction flash pattern change  Memorized preset Traffic direction Mode 1  Memorized preset Traffic direction Mode 2 Memorized preset Traffic direction Mode 3
<b>Warning + Traffic Direction Mode</b> (traffic direction 8 amber with 2 end warning light heads)	Connect Red/White wire + Brown/White wire to + Power (+12V) Connect Orange wire + Blue Wire to + Power (+12V) Touch Brown wire + Red/White wire + Brown/White to + Power (+12V) (For less than 3 seconds) Touch Brown wire + Red/White wire + Brown/White to + Power (+12V) (For longer than 3 seconds)	Warning + Traffic direction Flash mode  Flash Pattern changed  Memorized the pattern

# XT310AS FLASH PATTERNS

## WARNING FLASH PATTERNS

1	OFF
2	INBOARD OUTBOARD(single flash)
3	LEFT RIGHT(single flash)
4	ALTERNATE(single flash)
5	INBOARD OUTBOARD(Double flash)
6	LEFT RIGHT(Double flash)
7	ALTERNATE(Double flash)
8	INBOARD OUTBOARD(Quad Flash)
9	LEFT RIGHT(Quad Flash)
10	ALTERNATE(Quad Flash)
11	SINGLE OUTBOARD
12	DOUBLE OUTBOARD
13	SINGLE INBOARD
14	DOUBLE INBOARD
15	TRIPLE INBOARD
16	SWEEP
17	CYCLE FLASH

## END HEAD FLASH PATTERNS (60 fpm)

1	Single Flash Alternate
2	Double Flash Alternate
3	Three Flash Alternate
4	Quad Flash Alternate
5	Five Flash Alternate
6	Single Flash Simultaneous
7	Double Flash Simultaneous
8	Three Flash Simultaneous
9	Quad Flash Simultaneous
10	Five Flash Simultaneous

## TRAFFIC DIRECTION MODES

1	Right
2	Left
3	Center-Out
4	Right Fast
5	Left Fast
6	Center-Out Fast
7	SINGLE INBOARD-1
8	SINGLE INBOARD-1 Fast
9	SINGLE INBOARD Full-1
10	SINGLE INBOARD Full-1 Fast

## Operation Environment

Ambient Temperature: -10 to +45 degrees C

Relative Humidity: 10 to 85%, non-condensing

## Adjustment

After the XT310AS light is securely installed, loosen the adjusting screws located on each end and tilt the light to the desired angle. Then tighten the screws. Turn the XT310AS LED light on and check the light from the front or rear of the vehicle, through the window, to ensure that it is at the most desirable angle, and that the light is not impeded by any obstacles and/or window tinting.

## Troubleshooting

The XT310AS have been factory tested and approved. If the light fails to work, check the following:

1. Press the Function Switch (User Supplied) to be sure the "Off" pattern is not selected.
2. Remove the fuse from the vehicle fuse box and check to see if it has blown.

## NOTES:

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# WARRANTY

This product with TriCore® Technology was tested and found to be operational at the time of manufacture. Provided this product is installed and operated in accordance with the manufacturer's recommendations, Code 3®, Inc. warrants all parts and components (with the exception of all incandescent and halogen bulbs) of the product to be free of defects in material and workmanship for a period of one (1) year and TriCore light heads for a period of five (5) years from the date of purchase. This Warranty excludes normal wear & tear. Units demonstrated to be defective within the warranty period will be repaired or replaced at the factory service center at no cost. Code 3, Inc. will return the repaired product with transportation cost prepaid. Code 3, Inc. assumes no liability for expenses incurred in the packaging, handling, and shipping of the product to the Factory Technical Service Department for repair. For in-warranty product return authorization, questions regarding product warranty coverage or questions regarding out-of-warranty repair quotes, contact the Factory Technical Service Department.

The TriCore light heads are sealed as part of the quality control process. This Warranty is void if, in the judgment of Code 3, Inc. (1) an attempt has been made to break the light head seal or repair the light head, and/or (2) the product has been used with inappropriate or inadequate wiring or circuit protection, and/or (3) the product has failed as a result of abuse or unusual use and/or accidents.

**CODE 3, INC. SHALL IN NO WAY BE LIABLE FOR ANY OTHER DAMAGES RELATING TO THE PRODUCT INCLUDING BUT NOT LIMITED TO CONSEQUENTIAL, INCIDENTAL, INDIRECT OR SPECIAL DAMAGES OR LOST PROFITS OR REVENUE; NOR ANY EXPENSES INCURRED IN THE REMOVAL AND/OR RE-INSTALLATION OF PRODUCTS REQUIRING SERVICE AND/OR REPAIR.**

**EXCEPT AS SET FORTH ABOVE, CODE 3, INC. MAKES NO OTHER EXPRESS OR IMPLIED WARRANTIES WHATSOEVER, INCLUDING, WITHOUT LIMITATION, WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY, WITH RESPECT TO THIS PRODUCT.**

**NEED HELP? Call our Technical Assistance HOT LINE - (314) 996-2800**

# 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 returned to sender after the service has been rendered.

  
**A PUBLIC SAFETY EQUIPMENT COMPANY**

Code 3®, Inc.  
10986 N. Warson Road  
St. Louis, Missouri 63114-2029—USA  
Ph. (314) 426-2700 Fax (314) 426-1337  
[www.code3pse.com](http://www.code3pse.com)