

# bluePRINT<sup>®</sup>

automatic logic

Creating possibilities for you to build a smarter,  
safer and more confident tomorrow.

creating  
smarter safer  
confident

**SoundOff**  
**Signal** <sup>®</sup>  
Smart Design.

# A Smartly Designed Control System that Automates Emergency Lighting and Siren Performance Functions.



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**video**



bluePRINT<sup>®</sup>  
automatic logic



officer  
safer  
efficient

bluePRINT allows you, the officer, to do what you do...  
now in a safer and more efficient working environment.

bluePRINT®

Officers are constantly occupied with technology and other distractions that require a shift in concentration and a refocus of the eyes and hands. bluePRINT allows you to stay focused while keeping your eyes on the road and hands on the wheel.

## Reduce Distractions



**Issue:** Police officer's use of technology while driving is similar to that of texting and driving.

Light and siren configurations are pre-programmed and prioritized to respond to emergency situations without the officer having to hastily determine which buttons and switches to activate while driving.



## Heads Up, Not Down



**Implication:** Taking your eyes off the road for five seconds while driving 55 mph is like driving the length of a football field blindfolded. —*Distractions.gov*

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## Improve Intersection Safety

While possibilities are nearly endless, let's check out some bluePRINT application examples.

With bluePRINT, by simply tapping the horn, you can activate a blast of extreme white lighting from the lightbar and grille lights followed by a variety of red/blue flash patterns and unique siren tones.

WATCH  
**video**



**Issue:** 40% of all reported crashes occur at intersections. –*Federal Highway Administration* **Implication:** Serious injury or death, legalities, property damage and insurance claims.

## Every Traffic Stop Comes With Its Own Inherent Risks



With bluePRINT, simply activate the Blitz function to instantly activate all emergency lighting and siren to stun the would be offender. This feature provides the officer with an additional 2-3 seconds to take appropriate action if necessary.

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Bring Greater Visibility and Awareness to Your Vehicle

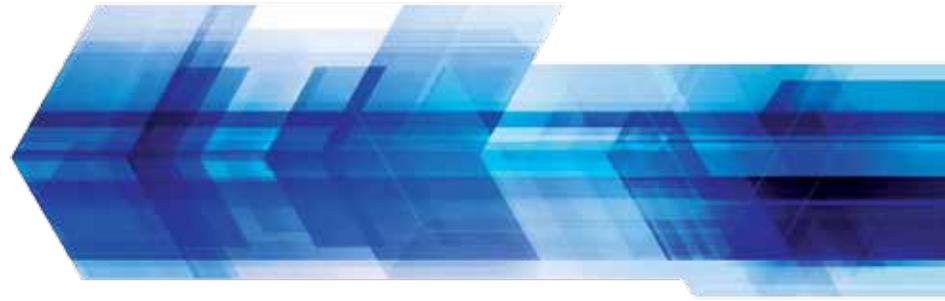
A patrol vehicle's presence can be diminished if its emergency lights are not constantly present. bluePRINT delivers continuous visibility because 50% of the vehicle's emergency lights are always functioning...no matter the viewing angle of the vehicle.



WATCH  
**video**



# Attention Grabbing Performance



During emergency runs, officers occasionally deal with drivers who appear to ignore emergency lights and sirens and fail to move out of the way.

With bluePRINT, you can sound the air horn, flash your headlight brights, activate extreme white lighting from the lightbar and grille lights while flashing your spot light to move traffic out of the way... all by simply pressing the horn.



WATCH  
**video**



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## Improve Visibility After Dark

During multiple vehicle pursuits, the bright flashing lights of leading emergency vehicles can compromise the vision of trailing officers.

bluePRINT allows for rear facing lightbar modules and perimeter lights to be shut off or dimmed with the simple press of a button.

WATCH  
**video**



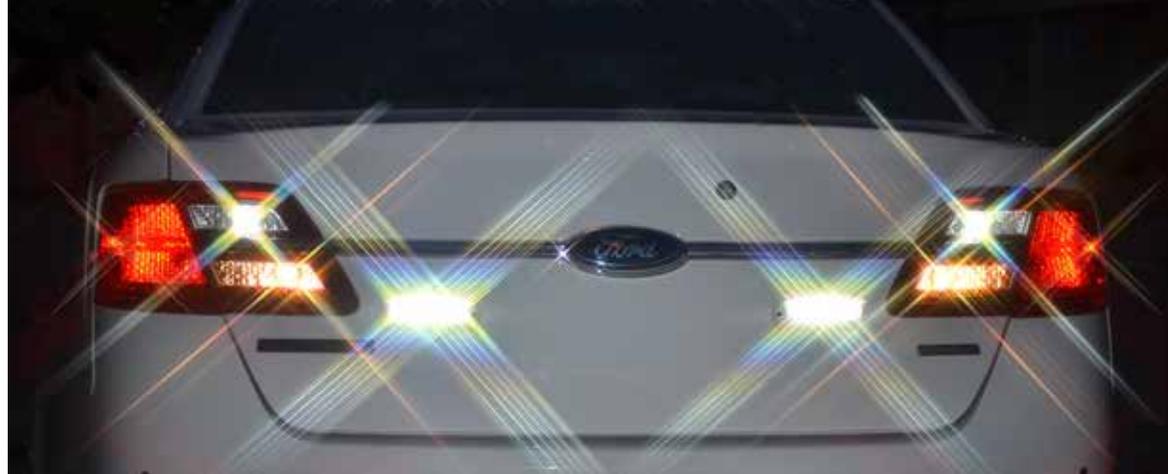
**Fact:** Viewing the rear of a lightbar during a nighttime multiple vehicle pursuit is comparable to looking into to eight high-beam headlights at once. —*SoundOff Signal*



bluePRINT allows rearward facing white perimeter lighting and Universal UnderCover lights to be linked with the vehicle's reverse lights for increased visibility when backing up.

Connect Universal UnderCover lights to bluePRINT so that the vehicle's brake lights will increase braking awareness to trailing vehicles.

bluePRINT allows you to add mirror and rear window white lights to the lightbar's alley lights to intensify nighttime illumination of back alleys and building fronts while improving the ability to read mailbox addresses.



Brake Light



Brake Light with Universal UnderCover Insert



**Implication:** Flashing lights from lead patrol vehicles cause vision impairment to trailing officers reducing their ability to effectively maintain control of a situation.

## Diminish Nighttime Vulnerability

Lightbar corner modules and mirror mounted lights can create a blinding affect to officers when exiting their vehicles or while seeking cover. bluePRINT deactivates corner modules and mirror lights when the driver or passenger door is opened. The modules reactivate when the door is closed.



WATCH  
**video**



**Issue:** Lightbar corner modules can project approximately 1,800 candela into the eyes of an officer.

Studies have shown it can take up to 25 minutes for eyes to adapt when moving from bright light to darkness. —*Jim Sheedy, Oregon Pacific University*

**Implication:** Impaired nighttime vision creates an inherent danger to an officer when approaching potentially dangerous subjects in a stopped vehicle.



The inability to effectively view a scene or potential target at night creates risk to the officer. With bluePrint, simply flip the headlight brights on or another input to instantly illuminate scenes with the lightbar's white modules, white grille lighting and spotlight.



Bright flashing lights can adversely affect the vision and concentration of a DUI subject and officers to compromise the situation. bluePRINT eliminates this problem by dimming and "steady burning" front lightbar modules and grille lights.



**Fact:** Between 2001 and 2010, 95 officers died during traffic stops and 4,752 were assaulted. --*Police Law Enforcement Magazine*

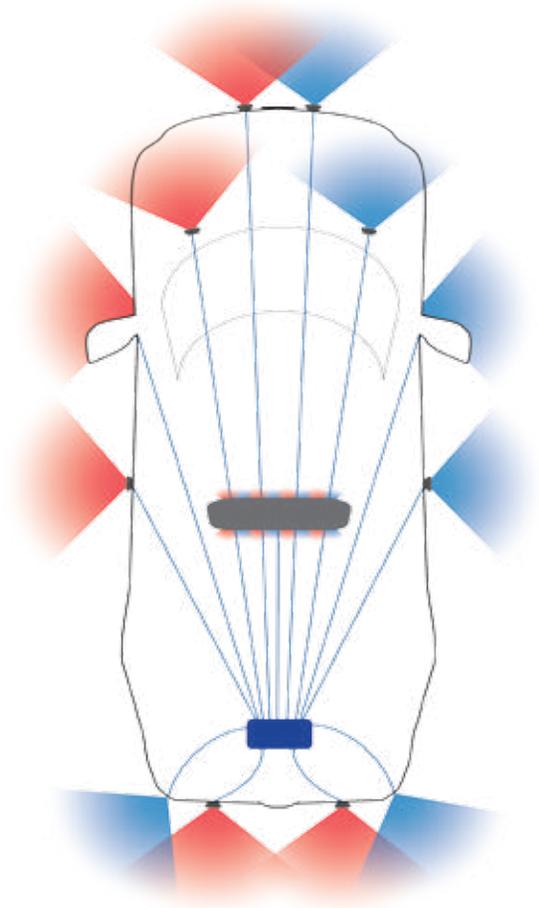
**Implication:** Loss of life and personal injury.

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## Before and After bluePRINT

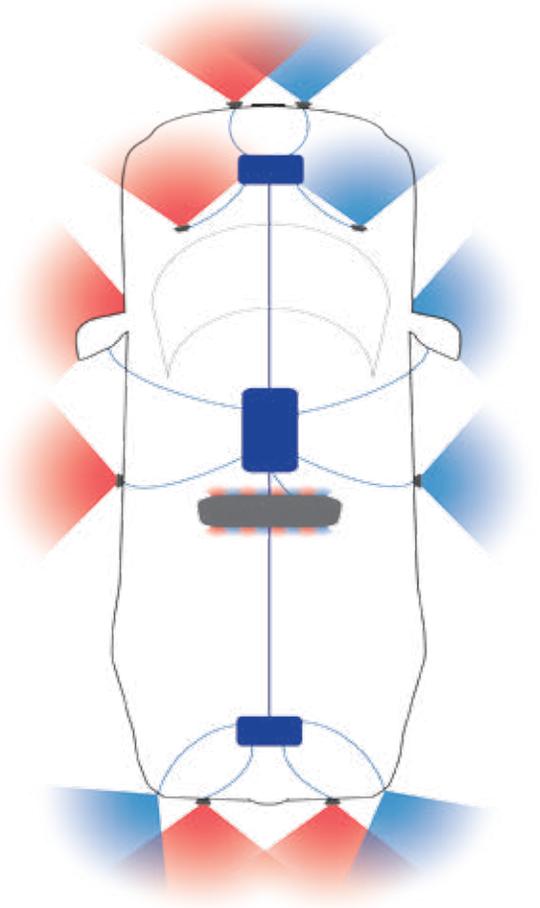
### Before

Emergency vehicle installations often centralize connections in the trunk or console resulting in extra wiring and installation time.

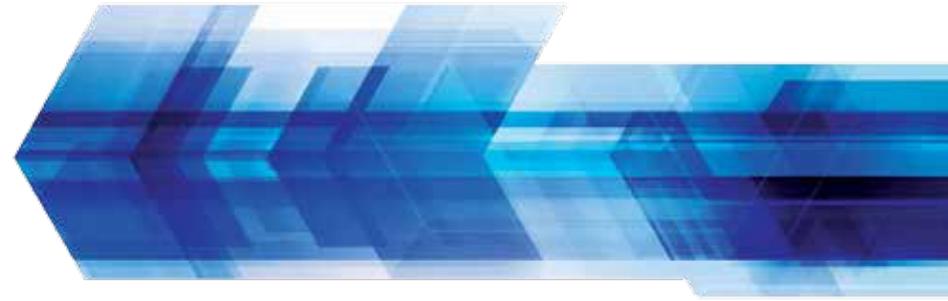


### After

bluePRINT replaces many of these connections with a multiplexed data bus that allows minimal wiring and ultimate flexibility. The lighting and siren becomes programmable and automated.



# Fleet Manager Advantages



bluePRINT provides fleet managers the advantage of reduced installation time and wiring complexity.

bluePRINT allows for easy diagnostics should a system failure occur down the road. bluePRINT also makes program configuration easy with a Windows® based computer program. The USB port allows for the configuration to transfer from your laptop to the controller.

An agency can ill afford dead batteries in their vehicles. bluePRINT allows all lighting and accessory outputs to be individually timed for load shedding and sleep currents. When your officers switch the ignition to “on”, they’re good-to-go...every time.



## Control System Technical Specifications

INPUT VOLTAGE	10-16 Vdc (negative ground)
OPERATING TEMPERATURE	-40° C to +65° C (remote node up to 85°C)
TOTAL SYSTEM INPUTS	Up to 40 Total Inputs: <ul style="list-style-type: none"><li>■ Central Controller Ignition Input</li><li>■ Remote Nodes: 4 each (up to 5 remote nodes can be used throughout vehicle)</li><li>■ Input Node: 20</li></ul>
TOTAL SYSTEM OUTPUTS	Up to 86 Total Outputs: <ul style="list-style-type: none"><li>■ Central Controller: up to 4 fixed and 20 programmable outputs</li><li>■ Remote Nodes: 10 each (up to 5 remote nodes can be used throughout vehicle)</li><li>■ 400 Series Siren: 12 non-flashing relay outputs and 3, 20 Amp outputs</li></ul>
TOTAL SWITCHING CURRENT	Up to 450 Amps Total: <ul style="list-style-type: none"><li>■ Central Controller: 100 Amps total</li><li>■ Remote Node: 50 Amps each (up to 5 nodes)</li><li>■ 400 Series Siren: 100 Amps total</li></ul>
SOFTWARE REQUIREMENTS	PC or Tablet: (used only for initial programming and diagnostics) <ul style="list-style-type: none"><li>■ Windows Vista® SP1 or later</li><li>■ Pentium 1GHz or higher</li><li>■ Minimum 512 MB of RAM</li><li>■ Minimum disk space of 1 GB</li><li>■ NET 4.5 Library (will be prompted to download if not already installed, additional 2 GB needed)</li><li>■ USB 1.1 or higher, cable with Type B plug</li></ul>

*US Patents Granted and Pending*



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