We are pleased to be the title sponsor of one of the great All-American sports, with the NASCAR® Whelen Modified Tour, the NASCAR Whelen Southern Modified Tour and now the recently added NASCAR Whelen All-American Series. This is our way of saluting not only the legends of NASCAR but also the dedicated professionals, Fire and EMS, Law Enforcement and Rescue Personnel that are every day heroes for us all. As the Officially Licensed Warning Lights of NASCAR®, we hope you’ll enjoy our lights on pace cars and racetrack equipment at tracks around the country.

For motorsports news and racing schedules, visit www.whelen.com
NEW LEGACY SERIES ALL DUO+™ Super-LED®
WeCan LIGHTBAR

Whelen’s sharper EDGE®! Reminiscent of the classic Edge in a new style design, Legacy was designed from the rugged extrusion up to maximize the performance of the newest LED on the market.

- Lower profile than Liberty™, but with increased intensity puts the Legacy ahead of all other lightbars on the market today and tomorrow.
- NEW Diamond Optix™ (patent pending) linear reflector optic design.
- Newly designed, high-output one-piece linear combo “multi-angled” corner modules produce light forward and rear and at the critical 45° angles. The four combo modules produce 360° warning signal.
- All warning lightheads are True DUO+, whether one color or two. Each segment can be operated independently or at the same time, creating the first true DUO lightbar, without loss of intensity. Ideal when you want to run a Traffic Advisor™ and rear warning at the same time, giving the performance of two lightbars in one.
- Whelen’s exclusive Collimator™ patented design captures, collects and focuses light for unbeaten light output.
- Optional take-downs are available in 3-LED or 6-LED modules.
- Optional alley or DUO+ integrated alley and warning light module ensures no dead spots, no gaps… 360° of contiguous light.
- Only DUO+ lets you operate the alley and the warning lights at the same time, at full intensity.
- DUO+ technology and Advanced Thermal Design “ATD” provides attention demanding new flash patterns for more lighting on-time. These include “SteadyFlash” for use at nighttime traffic stop/accident scene for added protection for officers. ATD reduces the stress on the LEDs themselves when the dwell time of the LEDs is extended.
- One piece UNI-DOME construction with a single sealing point. Each dome slides onto the aluminum extrusion and wraps around all internal components while the wiper seal protects your lightbar from the worst elements.
- Center divider(s) with LIM (Liquid Injection Molded) wiper seals assure lightbar integrity in all conditions.

- Bright illuminating take-down lights.
- Multi-angled combo corner modules produce light straight out and to front and critical 45° angles.
- DUO+ alloy/warning module shown in White Alley mode and shown in Red warning mode in photo to the left.

- Legacy “plug and play” into the CenCom Sapphire™ or CanTrol™ controller. A WeCan controller module is supplied for use with other switch centers from the lightbar.
- Hard-coated lenses shrug off environmental UV damage from the sun, salt and road chemicals.
- Photocell comes standard with Hi/Low that is adjustable for different ambient light levels. Meets SAE Class I requirements.
- Low-profile aerodynamic mounting feet maximizes fuel economy with virtually no wind noise.
- The I/O board snaps into brackets, and point to point wiring between each lighthead and the I/O board creates a clean look and allows for easy serviceability.
- Many patents pending.
- Standard lengths: 44” (110cm), 48” (123cm) and 54” (136cm).
- Height without mounting feet is only 1-5/8".
Liberty™ Super-LED® Lightbars

Extreme low profile all Linear lightbar that is almost undetectable until lit. Brighter extended corner modules for more light at critical 45° and 90° angles.

- An all Linear-LED® lightbar.
- Heavy-duty, long-life operation with low current draw.
- Build your lightbar in any color combination with warning LED modules in any position you want.
- Choose the standard extended corner models (SA, SX, SW or SY), or the extra high intensity corner models (SB, SP, SR or SZ).
- Choose a four corner model, then add up to 12 Linear-LED directional modules in pairs, for a total of 16 modules, now or at any time in the future.
- Super-LED LR11 take-downs and alleys with 15° horizontal adjustment.
- Optional brake/tail/turn lights.
- Optional Traffic Advisor™ available in single color or DUO™ Linear-LED modules for combination Traffic Advisor and warning capability in a single lighthead.
- Optional solar panel compensates for parasitic draw from the vehicle’s computer, improves battery efficiency and extends battery life.
- Extruded aluminum chassis provides superb strength and stability.
- All LED modules feature wide-angle design for increased performance.
- Clear outer lenses are standard, optional color lenses are available.
- Five year HDP® Heavy-Duty Professional warranty on LEDs.
- All models exceed SAE requirements.
- Size: 2-1/2” (64mm) H x 12” (304mm) W x 43-1/8” (109cm), 48-1/2” (123cm) or 53-7/8” (137cm).
- To help you build your lightbar, Whelen WeCad™ build-a-bar program is available on our website at www.whelen.com.

SX, SP, SZ & SY SERIES
LOW CURRENT SWITCHING WITH SCAN-LOCK

- Each Super-LED lighthead is driven by a single all electronic module that provides proper input power and choice of flash patterns.
- Scan-Lock™ allows you to easily scan through multiple flash patterns and lock in the desired pattern. Every pair of lights can have its own unique pattern.
- Low current “LC” operation uses a small diameter external cable harness for operation with standard, low current switch controls or micro switches.
- SZ Series allow for optional DUO Super-LED Inboard, corner or all modules to both the front and/or rear of the lightbar. Each module contains two sets of different color LEDs, allowing for true dual color modules without giving up light intensity.
- Optional Traffic Advisor with ultra high intensity Linear Super-LED modules, split or DUO Traffic Advisors are available.
- Pre-wired with 15” passenger side cable exit, optional driver side cable exit.

SA, SB, SW, SR SERIES
PROGRAMMABLE WITH WeCan

- WeCan Programmable Series includes an external interface unit, the WeCan® electronic control module (ECM), which communicates all lightbar operating functions via a 2-conductor, 20-gauge cable. All functions are programmed by a PC via simple “pick & click, or drag” screens. Windows® based XP or later operating system required. USB input to the ECM from PC or laptop makes programming easy.
- Small cable allows for easier overall wiring and lightbar installation.
- Up to 18 different programmed warning configurations can be operated via customer supplied switching to each of the 18 input wires to the ECM (default program pre-installed). Once the ECM is programmed, selection of these wires will allow for:
  - Complete independent “On” or “Off” control of each lighthead.
  - Flash pattern control of each lighthead.
  - Phase control of each lighthead with four phases that allow for alternating, simultaneous & combo flash patterns.
  - DUO lightheads offer independent control of each color in each lighthead, including On/Off and phasing.
  - Cruise light control with almost unlimited adjustable intensity levels.
  - Independent Hi/Low control is available to any one or more Super-LED lightheads, excluding the four corner modules (required for SAE certification).
  - Independent sequential (single wire or 2-wire) control of the traffic arrow functions (left, right, split) does not require a Traffic Advisor control head.
- The WCC9 (substituted for the ECM) has 10 pre-programmed lightbar configurations accessible via dip switches located on the rear of the unit.

<table>
<thead>
<tr>
<th>Series</th>
<th>WeCan</th>
<th>Low Current</th>
<th>Corner Module</th>
<th>Single Color</th>
<th>DUO Corners</th>
<th>DUO Inboards</th>
<th>DUO TA</th>
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<tr>
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<td>-</td>
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<td>-</td>
<td>Standard</td>
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</tbody>
</table>
Liberty™ DUO™ Super-LED® Lightbars

With DUO Technology, it’s like having multiple lightbars in one!

- DUO models have the ability to flash different colors in the same lightbar giving you up to four lightbars in one!
- Combination lighting with two warning colors in a single Super-LED module for just about any color combination you need.
- Optional Duo Super-LED Traffic Advisor™ lets you change your primary color warning lights to Amber Traffic Advisor mode.
- Available in both WeCan® and low current lightbars.
- To help you build your lightbar, Whelen WeCad™ build-a-bar program is available on our website at www.whelen.com.

NEW Liberty TRIO™ Super-LED Lightbars

Whelen’s top performing Liberty lightbar just took another huge step forward with its TRIO technology, available in four pre-configured combinations of Linear-LED® modules.

- Combination Tri-Color warning in a single Super-LED lighthead. Change it to fit your needs by flipping a switch!
- Change color sets to the front, rear and sides of the lightbar with the lighting combination you need.
- Select high intensity Red and Blue warning light with White illumination light when you need it. Or add an Amber Traffic Advisor to the rear for additional rear warning while keeping the White illumination lights available. For command posts, we offer these bars with steady Green corners.
- WeCan technology allows for all 18 wires on the control point to be easily programmed using a Windows® based software. This allows for individual control of each warning, take-down and alley lighthead. The steady feature offers pre-configured group light control.
- Standard with LR11 Super-LED alley lights and take-down lights, with optional Dual LR11 take-downs or extra high intensity take-downs for even more powerful illumination.
- Available in pre-programmed WeCan Series lightbars.
- All models exceed SAE requirements.
- To help you build your lightbar, Whelen WeCad build-a-bar program is available on our website at www.whelen.com.

For product options and specifications see page 22
Justice® Super-LED® Series Lightbars

High performance, cost competitive Super-LED lightbar with a wide range of options, designed for ease of operation, upgrade and serviceability. Available in WeCan® and Competitor™ Series.

- Black polycarbonate base on an extruded aluminum platform for added strength.
- Clear outer lens standard with a moisture resistant compression fit gasket. Optional color lenses available.
- Optional CON3™ or LIN6™ lighthead modules for outer sections.
- Center section available with optional single CON3, LIN6 or two LTR3™ lighthead modules (for split color center section).
- Corner modules available with 6 or 9 Super-LED linear modules.
- Optional external high intensity flashing LED alley light pod and internal LR11 warning light in alley position.
- Standard passenger side cable exit, driver side optional.
- Service oriented. Change colors, upgrade or service lightbar in the field with ease, simply remove six screws for outer dome or four screws for center dome to access any section of the lightbar.
- Replace any lighthead by removing one screw and single connector.
- Wrecker Lightbar, standard 62” Competitor™ Series model with rear work lights and brake/tail/turn lights.
- Five year HDP® Heavy-Duty Professional warranty on LEDs.
- Size: 2-1/4” (57mm) H x 12” (304mm) W x 44” (112cm) or 50” (127cm) or 56” (142cm) L.
- To help you build your lightbar, Whelen WeCad™ build-a-bar program is available on our website at www.whelen.com.

**JC/JE SERIES, STANDARD CURRENT SWITCHING WITH** Scan-Lock™

<table>
<thead>
<tr>
<th>Series</th>
<th>WeCan</th>
<th>Standard Current</th>
<th>Corner Module</th>
<th>DUO TA</th>
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<tr>
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<td>6 LED</td>
<td></td>
</tr>
<tr>
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<td>-</td>
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<td></td>
</tr>
<tr>
<td>JY</td>
<td>Yes</td>
<td>-</td>
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**JV/JY SERIES PROGRAMMABLE WITH** WeCan®

<table>
<thead>
<tr>
<th>Series</th>
<th>WeCan</th>
<th>Standard Current</th>
<th>Corner Module</th>
<th>DUO TA</th>
</tr>
</thead>
<tbody>
<tr>
<td>JV</td>
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<td>Yes</td>
<td>9 LED</td>
<td></td>
</tr>
<tr>
<td>JY</td>
<td>-</td>
<td>Yes</td>
<td>6 LED</td>
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</tbody>
</table>

- WeCan Electronic Control Module (ECM) communicates all lighthead operating functions via a 2C, 20-gauge cable.
- Easily programmed by your computer via simple “pick & click, or drag” screens.
- Windows® based XP or later operating system required.
- USB input to the ECM from PC or laptop makes programming easy.
- Built-in Traffic Advisor control, independent flash pattern and phase control of each individual lighthead, standard.
- Optional LIN6, CON3 or LTR3 inboard modules, LR11 Super-LED flashing take-downs and alley lights with 15° horizontal adjustment.
- Optional WCC9 WeCan electronic control head replaces the standard WeCan control module. Hand held or mounted to the dash or console, the WCC9 controls warning lights, take-downs, alley lights and Traffic Advisor from a single key pad.
- **NEW** Optional LIN6 DUO™ Traffic Advisor lets you change your primary color warning lights to Amber Traffic Advisor mode.
NEW DELTA™ Rota-Beam™ SERIES
Super-LED® “ROTATING” LIGHTBAR

100% Solid-State! No moving parts and no motors. Your eyes will tell you that it is a rotating lightbar, but it is simply the latest innovation in LED lighting from Whelen! If you are looking for the longer dwell time and sweep of halogen rotating lights, here it is... and only the motor noise is missing!

■ Sleek, multi-level warning lightbar featuring new Super-LED “rotating” light modules, using the latest generation of LED technology.
■ Two to six Rota-Beam Super-LED, 100% Solid-State “rotating” beacons plus optional angled mirrors.
■ No moving parts. No motors to wear out or malfunction.
■ Multiple Scan-Lock™ flash patterns; some with varying flash rates for an almost unlimited choice of internally controlled warning patterns for the Rota-Beams.
■ SAE Class 1 Certified.
■ Multi-level for 360° of unobstructed warning.
■ External photocell for low power, optional.
■ Optional lower level; single or dual LR11 take-down lights.
■ Optional lower level; single or dual LR11 alley lights.
■ Optional lower level; Linear6® Super-LED wide-angle warning modules. Front/rear control with up to 4 in the front and 4 in the rear.
■ Cruise light mode standard on outboard Rota-Beam (adjustable).
■ Clear polycarbonate outer domes are hard coated for scratch and fade resistance. Insuring your lightbar will look new for many years.
■ Low current draw, moisture and vibration resistant.
■ Height from base to dome is approximately 5-1/2 inches.
■ Rugged extruded aluminum base will not sag or warp.
■ Six-point polycarbonate mounting feet provide a stable stance on the thinner roofs of today’s vehicles.

■ Optional mounting kits available.
■ 20’ cable standard.
■ Easy to install, maintain and operate with amazing warning performance.
■ Available in Red, Blue, Amber and White. Split (front/rear) colors available.
■ Standard current switching allows this lightbar to be easily wired to Whelen’s 295LSA6, PCCS9RW, PCCW Series or other standard current switching.
■ Five year HDP® Heavy-Duty Professional warranty.
■ Dimensions: 5-1/2” (140mm) H x 16-3/4” (425mm) D x 50” (126cm) or 56” (185cm) L.

For product options and specifications see page 23
**Freedom™ Super-LED® Lightbars**

- All models meet or exceed SAE Class 1 and California Title XIII requirements.
- Modular construction lets you build your lightbar in any color combination with take-downs and Super-LED modules in any position you want.
- Optional Solar Panel compensates for parasitic draw from the vehicle's computer, improves battery efficiency and extends battery life.
- Clear outer lenses are standard, with optional individual color lenses.
- Five year HDP® Heavy-Duty Professional warranty on LEDs.
- Standard lengths: 44", 50", 55".
- See current Price List or Website for complete list of options.
- Size: 3-3/4" (95mm) H x 12" (304mm) W x 44-3/8" (113cm), 49-3/4" (126cm) or 55-1/8" (140cm).
- To help you build your lightbar, Whelen WeCad™ build-a-bar program is available on our website at www.whelen.com.

**FL/FX SERIES**

**LOW CURRENT SWITCHING WITH SCAN-LOCK**

**FL Series** has standard corner modules

**FX Series** has extended corner modules

- Choose the 4 corner linear module lightbar, then add up to twelve Linear Super-LED modules for a total of sixteen modules.
- Optional five or six ultra high intensity Linear Super-LED Traffic Advisor™.
- Each Super-LED lighthead is driven by an all electronic module that provides proper input power and choice of flash patterns.
- Scan-Lock™ allows you to scan through multiple flash patterns and lock in the desired pattern. Every pair of lights can have its own unique pattern.
- Optional single or dual LR11 Super-LED flashing take-downs and flashing alley lights with 15° horizontal adjustment.

**Bi-level Control of Lightheads**

<table>
<thead>
<tr>
<th>Series</th>
<th>WeCan Low Current</th>
<th>Corner Module</th>
<th>Bi-level Control of Lightheads</th>
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<tr>
<td>FC</td>
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</tbody>
</table>

**FV/FW SERIES PROGRAMMABLE WITH WECAN**

**FV Series** has standard corner modules

**FW Series** has extended corner modules

**Wecan Programmable Lightbar Series.** "FV & FW" are similar to the "FL & FX" Series except includes an external interface unit, the Wecan electronic control module (ECM), which communicates all lighthead operating functions via a 2-conductor, 20-gauge cable. All functions are programmed with a PC via simple "pick & click, or drag" screens. Windows® based 2000, XP or later operating system required. USB input to the ECM from PC or laptop makes programming easy.

- Choose the "FV" standard 4 corner Linear Super-LED with 400 Series or single or dual LR11 alley light options or "FW" extended corner module with single or dual LR11 alley light option.
- Small cable allows for easier overall wiring and lightbar installation.
- Up to 18 different programmable warning configurations can be operated via customer supplied switching to each of the 18 input wires to the ECM (default program pre-installed). Once the ECM is programmed, selection of these wires will allow for:
  - Complete independent “On” or “Off” control of each lighthead.
  - Flash pattern control of each lighthead.
  - Cruise light control with almost unlimited adjustable intensity levels.
  - Independent Hi/Low control is available to any one or more Super-LED lightheads, excluding the four corner modules (required for SAE certification).
  - Independent sequential (single wire or 2-wire) control of the traffic arrow functions (left, right, split) does not require a Traffic Advisor control head.

- The WCC9 (substituted for the ECM) has 10 pre-programmed lightbar configurations accessible via dip switches located on the rear of the unit.
- WeCan Electronic Control Module can be deleted when a WeCan lightbar is being used with a Whelen CenCom Sapphire™ or CanTrol™ siren/light control system.

**Freedom II Series**

**FC SERIES PROGRAMMABLE WITH WECAN**

- The Freedom II "FC" Series has all the great features of the “FW” lightbars with the extended corner modules plus independent control of upper and lower levels of each split or solid color lighthead.
- Whether you choose solid color or split color modules, you have independent control of each module, upper and lower level, for virtually two lightbars in one.

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For product options and specifications see page 24
NEW FREEDOM™ Rota-Beam SERIES
SUPER-LED® “ROTATING” LIGHTBAR

With the classic, aerodynamic appearance of the Edge® 9000 Series, Freedom is one and three quarters inches shorter than the Delta Rota-Beam™ lightbar and features modular construction. 100% Solid-state! No moving parts and no motors. Your eyes will tell you that it is a rotating lightbar, but it is simply the latest innovation in LED lighting from Whelen! If you are looking for the longer dwell time and sweep of halogen rotating lights, here it is... and only the motor noise is missing!

- Sleek, new Super-LED “rotating” light modules, using the latest generation of LED technology.
- Start with four half 180° modules and add up to six more half 180° modules.
- No moving parts. No motors to wear out or malfunction.
- Multiple Scan-Lock™ flash patterns; some with varying flash rates for an almost unlimited choice of internally controlled warning patterns for the Rota-Beams.
- SAE Class 1 Certified.
- 360° of unobstructed warning.
- External photocell for low power, optional.
- Single or dual LR11 take-down lights.
- Optional Linear Super-LED wide-angle warning modules. Front/rear control with up to 4 in the front and 4 in the rear.
- Clear polycarbonate outer lenses are hard coated for scratch and fade resistance. Insuring your lightbar will look new for many years.
- Low current draw, moisture and vibration resistant.

- Height from base to dome is approximately 5-1/2 inches.
- Rugged extruded aluminum “I” Beam will not sag or warp.
- Six-point polycarbonate mounting feet provide a stable stance on the thinner roofs of today’s vehicles.
- Optional mounting kits available.
- 20' cable standard.
- Easy to install, maintain and operate with amazing warning performance.
- Available in Red, Blue, Amber and White.
- Standard current switching allows this lightbar to be easily wired to Whelen’s 295SLSA6, PCCS9RW, PCCW Series or other standard current switching.
- Five year HD® Heavy-Duty Professional warranty.
- Dimensions: 3-3/4” (95mm) H x 12” (304mm) W x 44-3/8” (113cm), 49-3/4” (126cm), 55-1/8” (140cm), 60” (152cm) or 72” (183cm) L.
Inner Edge® & Inner Edge XLP Super-LED® Lightbars

Full featured interior vehicle specific lightbar series is virtually undetectable when not in operation, allowing you to be seen only when you want to be seen! Now offered in the extra low profile XLP Series!

- Choose the housing to fit your vehicle and light modules you need.
- Rugged housing fits snugly against the vehicle’s upper front windshield, or lower back window.
- Choose from 3-LED, 6-LED or 6-LED DUO™ Super-LED modules.
- DUO technology models have different color LEDs in the same module allowing lightbar to flash different colors.
- Super-LED take-down lights, available on front 3-LED units.
- Easy installation. Front facing models mount to visor anchor points. Rear lower facing uses the existing child-restraint brackets, both without drilling holes.
- Requires customer supplied switches or control head, purchased separately.
- Available in Red, Blue, Amber and White.
- Scan-Lock™ provides multiple flash patterns.
- Order by choosing housing and then add the LED color modules required.
- Five year warranty on LEDs.

NEW EXTRA LOW PROFILE FORWARD FACING 3-LED SERIES

- XLP (Extra Low Profile), 3-LED models with low current switching, removable lens for spot pattern and low power. XLP housing is shorter and thinner, mounting closer to headliner and windshield for more interior room.
- Meets SAE and California Title XIII specifications.
- Low profile two piece housings with 3-LED Series lightheads.
- Split two piece housings for individual driver and passenger side units.
- Choose from four configurations with five, six, ten or twelve lightheads (see chart on page 25 for models and configurations).
- Fits late model Ford Explorer, Police Interceptor Utility, F150/250/F350, Fusion, Taurus and Police Interceptor Sedan; Chevy Caprice, Suburban, Tahoe, Silverado; Dodge Charger and Ram police vehicles.

NEW EXTRA LOW PROFILE 6-LED WECAN® DUO SUPER-LED SERIES

- 6-LED DUO Super-LED lightheads, featuring two colors in one LED module.
- Independent control of each warning color, White feature is in groups of three.
- Available in Red/White, Blue/White and/or Amber/White are available with White being the default take-down lights.
- Only 3/4” in height, with 40 Scan-Lock flash patterns.
- Sturdy powder-coated aluminum housing and low power option.
- Choose from four configurations with six or twelve lightheads (see chart on page 25).

REAR FACING LOWER DECK SERIES 6-LED LINEAR-LED MODELS

- These models mount on the rear deck snugly against the rear window, eliminating any flashback to the driver.
- Low profile black textured housing mounts using existing child-restraint brackets.
- Available with Linear6™ or LINZ6™ modules.
- Choose from six configurations with six, eight or ten lightheads for warning or Traffic Advisor™ models (see chart on page 25).

For more information please request Inner Edge brochure.

For model numbers and vehicle specifications see chart on page 25.
Outer Edge® Lightbars

Vehicle specific Super-LED horizontal and Pillar mount warning for 2010-2013 Chevy Suburban/Tahoe models. Two independent housings with four lightheads per section that are custom designed to mount on the outside of the vehicle. Whether the rear hatch of your vehicle is open or closed, Whelen offers lighting protection specific to the back of that vehicle. Horizontal and vertical models are made for the rough treatment, weather and chemical exposure that’s part of your job environment.

VEHICLE SPECIFIC SUPER-LED® EXTERNALLY MOUNTED WARNING

BASIC FEATURES
- Clear, non-fluted lenses are sealed to the ABS vacuum-formed housings.
- Housings mount to body and back window with 3M® VHB tape, included.
- Lightheads are fully encapsulated for superb moisture and vibration resistance.
- Scan-Lock™ lets you scan through multiple flash patterns and select the desired pattern.
- Available in Amber, Blue, Red and White.

OE13UR8 HORIZONTAL MOUNT MODELS
- Eight LINZ6™ lighthead modules are located on the upper portion of the vehicle’s rear window.
- Eight lamp Traffic Advisor™, or 8 total with six lamp Traffic Advisor and two end flashing lamps.
- Warning offers 7 flash patterns.
- Traffic Advisors offer four Scan-Lock patterns.
- Requires customer supplied switches or optional Whelen TADCTL1 Traffic Advisor Control Head.

RP13** VERTICAL PILLAR MOUNT MODELS
- Six LINZ6 lightheads and two Vertex lightheads.
- Mounts above the brake/tail/turn assembly rear pillar.
- Requires customer supplied switches.
- 25 flash patterns available.

For product options and specifications see page 26
Professional Super-LED® Mini Lightbars

Useful for vehicles where space is at a premium or where, due to the size of the vehicle, the use of two low current mini lightbars offers a strategic benefit over the use of a single lightbar.

RESPONDER® HD MINI LIGHTBARS
- Heavy-duty Class 1, J845 Certified.
- Super-LED dual level modules with multiple Scan-Lock™ flash patterns.
- Rugged aluminum base available in permanent, magnetic and magnetic/suction mount.
- ActionScan™ default flash pattern in magnetic and magnetic/suction mount models.
- Five year warranty on LEDs.
- Size: 5-1/8” (130mm) H x 6-5/16” (160mm) W x 17-1/4” (438mm) L.

RESPONDER LP LOW PROFILE MINI LIGHTBARS
- Low-profile, mini lightbar with choice of LIN6™, CON3™ and DUO™ Super-LED modules.
- DUO technology models have different color LEDs in the same module allowing lightbar to flash different colors.
- Provides 360° of high impact warning coverage.
- Built-in flasher to provide multiple Scan-Lock patterns including steady-burn.
- Rugged aluminum or polycarbonate base, with a polycarbonate self-cleaning dome.
- Available in permanent, magnetic and magnetic/suction mount.
- Permanent mount includes 6” pigtail. Magnetic and magnetic/suction mount versions include 10’ straight cord and cigar plug with LED indicator On/Off switch and pattern control switch.
- Size, Aluminum base: 3-1/4” (83mm) H x 6-5/16” (160mm) W x 17-3/8” (44cm) L.
- Polycarbonate base: 2-7/8” (74mm) H x 6-5/16” (160mm) W x 17” (43cm) L.

MINI LIBERTY™ LIGHTBAR
- All Linear-LED® in a sleek 2-1/2” high aerodynamic profile.
- Heavy-duty, long-life operation.
- Available in permanent, magnetic and magnetic/suction mount.
- Permanent mount available with optional take-down or two alley lights.
- Clear outer slide-in lenses and snap-in/lock-in lamp modules.
- Size: 2-1/2” (64mm) H x 12” (304mm) W x 22” (558mm) L.

MINI ULTRA FREEDOM™ LIGHTBARS
- Heavy-duty rugged extruded aluminum I-beam chassis, easy access to internal components.
- Multiple Scan-Lock flash patterns.
- Size: 3-3/4” (95mm) H x 12” (304mm) W x 28-1/4” (717mm) L.

LINEAR-LED VERSION
- Optional two or four Super-LED flashing modules.
- Four high-intensity Linear-LED modules.
- Optional take-downs and alley lights for permanent mount models.

NEW ROTA-BEAM™ ROTATING VERSION
- New “rotating” modules. No moving parts, 100% solid state.
- Four half 180° modules and add up to two more half 180° modules.

MINI JUSTICE® LIGHTBAR
- Optional LR11 Super-LED take-downs and alley lights for permanent mount models.
- Add up to 4 optional CON3™ warning modules.
- Combine small modules like a LTR3® warning with a LR11 take-down in one module.
- Black polycarbonate base on an extruded aluminum platform for added strength.
- Clear outer lens with a moisture resistant compression fit gasket. Optional color lenses available.
- Size: 2-1/4” (57mm) H x 12” (304mm) W x 23” (584mm) L.

For product specifications see page 26

The use of a magnetic or magnetic/suction mount lightbar on the roof of a vehicle in motion is not recommended, and is at the sole discretion and risk of the user.
With CanTrol WC, your warning system becomes your strongest ally for safety. Pre-configure the proper response to any situation before it happens... before timing is critical, before an emergency or accident requires instantaneous judgment. Vehicle integration lets you program and control all the lighting, traffic arrows and siren functions in your vehicle, flash pattern synchronization, canine alarm and temperature control, radar and camera activation, door or trunk opening, window down, gun lock, ignition disable and much more. The abilities of CanTrol WC are limited only by your imagination...

Configuration is easy with a Windows® based computer program. A USB port allows easy program transfer from your computer to the amplifier/control module.

FEATURES
- Full function amplifier/control module.
- Program and control all the lighting, traffic arrows and siren functions in your vehicle.
- All outputs have both short circuit and over-current protection.
- WeCan® lightbar plugs directly into the amplifier/control module and is programmed by the CanTrol software.
- Choice of five styles of control heads (ordered separately).
- Three analog inputs for temperature sensor, ambient lighting, etc.
- Integrated battery voltage monitor for power meter.
- Supports one or two 100 watt speakers.
- Programmable for Hands-Free operation.
- 161 synchronizable, variable-phase, programmable flash patterns.
- Includes PA and radio repeat functions.

MODELS
- CANWC1 Includes standard amplifier/control module with sixteen, 2-1/2 amp outputs, three low current 1/4 amp outputs and control head of choice. Traffic Advisor module, eight total programmable outputs (four 10 amp pos/neg and four 10 amp pos only), an additional thirty-two 2-1/2 amp outputs, three communication Diagnostix indicators with optional CANEM16. Size: 3-1/8” (79mm) H x 7” (194mm) D x 9-1/2” (241mm) L.

CONTROL HEADS
- CANC1L1 includes 3-position slide switch, eighteen push-buttons, microphone and extension cable. Size: 3-1/2” (89mm) H x 1-5/16” D x 6-7/8” (174mm) L.
- CANC1L2 includes 3-position progressive light/siren control, eighteen push-buttons, microphone and extension cable. Size: same as CANC1L1.
- CANC1L3 includes a single master emergency switch, eighteen push-button light/siren controller, microphone and extension cable. Size: same as CANC1L1.
- CANC1L4 includes 3-position slide switch, six push-buttons, microphone and microphone extension cable. Size: 2-1/2” (64mm) H x 7/8” (22mm) D x 4-3/16” (106mm) L.
- CANC1L5 includes a hand held combination microphone and controller, 3-position progressive light/siren control, nine push-buttons and microphone extension cable. Size: 5-5/16” (135mm) H x 2-3/16” (56mm) W x 1-1/8” (29mm) D.

OPTIONS
- CANEM16 16 output expansion module, up to 2 per system.
- CANLITEB Light sensor in Black housing.
- CANLITEC Light sensor in Chrome housing.
- CANTEMPB Temperature sensor in Black housing.
- CANTEMPNC Temperature sensor in Chrome housing.

SIREN TONES
- 392 AWF
- 800 Hz
- Airhorn
- Alternate Wail
- Alternate Yelp
- Composite HI/Low 1800 1400 List
- Composite Piercer 2600 2000 List
- Composite Wall
- Composite Tritone
- DIN HI/Low
- FRA AF HI/Low
- HI/Low 4550
- HI/Low 500-660
- HI/Low 510-1150
- HI/Low 610-760
- HI/Low GEN
- HI/Low POL
- HI/Low SPD
- HI/Low UMH
- K9 Alarm
- Manual Coast
- Manual Piercer
- Mechanics
- Manual Stop
- Mechanical Wail
- Mechanical Warning
- No Tone
- PA
- Piercer
- Pushed Airhorn
- Pushed Piercer
- Radio
- Tritone
- Wall
- Wall 378p3
- Wall 850-1700 4s
- Wall 850-1700 5-25s
- Wall 850-1700 5.25s
- Wall Yelp
- Wall Yelp Piercer
- Warning
- Warning Chirp
- Wasp
- Yell
- Yell 225
- Yell 249
NEW CenCom Sapphire™

REMOTE SIREN AND CONTROL CENTER

CenCom Sapphire features an integrated WeCan® serial port for connecting your Whelen WeCan series lightbar directly to the Amplifier Control Module. No more bulky wires and secondary boxes to contend with, just plug-in and go!

CenCom Sapphire indicator LEDs on each output create a simple way to troubleshoot shorted or broken connections in your vehicle’s wiring.

Fuses and connections are easily accessible without having to use any tools or remove any covers. All high current outputs are fused for your convenience.

New, heavy-duty power and output connectors can handle rough treatment without damage or accidental disengagement and are easily accessible on the front face of the Amplifier Control Module.

Configuration programming is easier than ever with newly redesigned CenCom Sapphire software. CenCom Sapphire retains the highly regarded simplicity of our previous CenCom software, with new features and added flexibility, including the ability to configure your Whelen WeCan lightbar!

- Control your warning lights, siren and Traffic Advisor™ functions from a single keypad.
- Choose from five models with easy-to-operate control heads with “Hands-Free” siren operation.
- Two series to choose from for compatibility with Traffic Advisors: CCSRNT operates Whelen 2-wire Traffic Advisors that do not require external controls. CCSRNT operates 9-wire Traffic Advisors that do require external controls.
- Solid-state outputs: one 40-Amp, two 20-Amp, four 10-Amp, and four 250-milliAmp.
- Relay output: one 10-Amp dry contact relay.
- Lightbar: 1 Phoenix® style connector for a WeCan Series lightbar.
- Integrated Traffic Advisor connection on CCRSNT Series.
- Four positive or ground activated inputs, including a horn-ring input.
- Easy to configure using the included CenCom Sapphire Windows® application.
- Configured programs may be extracted, modified and stored for ease of service and reuse.
- A USB port on the Amplifier Control Module provides easy access for programming.
- Each button is individually customizable for numerous button types (Press on/Press off, momentary, etc.).
- Control head backlighting can be easily turned on or off for high visibility on patrol or blacked out for discrete night operations.
- Brightly backlit push-buttons include standard function labels to choose from.
- Rugged, aluminum-housed Amplifier Control Module is field-serviceable with easy access to fuses and connections.
- Operates one or two 100 watt siren speakers.
- PA microphone with plug-in connector and 20’ microphone cable are included.
- Includes all pigtailed and connectors.
- Rugged CAT-5 cable connects the control head to the Amplifier Control Module.
- Five year warranty.

Meets or exceeds all applicable SAE, California Title XIII and NFPA requirements with various Whelen speakers.

Size, Amp: 3” (78mm) H x 8-1/4” (210mm) W x 6-3/4” (171mm) D.

### MODELS

- **CCSRN3**
  - 3-Position slide switch and 18 push-button control head with Amplifier Control Module with pigtailed, microphone and CCMICX20 extension cable. Size: 3-1/2” (89mm) H x 6-7/8” (174mm) W x 1-5/16” (33mm) D.

- **CCSRN3A**
  - Same as CCSRN3, except with 8 (positive or negative) input expansion module, 12 total inputs.

- **CCSRN32**
  - 3-Position progressive push-button switches and 18 push-button control head with amplifier module with pigtailed, microphone and CCMICX20 extension cable (Size: same as CCSRN3).

- **CCSRN33**
  - Single master push-button switch and 18 push-button control head with amplifier module with pigtailed, microphone and CCMICX20 extension cable (Size: same as CCSRN3).

- **CCSRN34**
  - 3-Position slide switch and 6 push-button control head with amplifier module with pigtailed.
  - Size: 2-1/2” (64mm) H x 4-3/16” (106mm) W x 7/8” (22mm) D.

- **CCSRN35**
  - 3-Position progressive push-button switches and 9 push-button hand held control head with amplifier module with pigtailed.
  - Size: 5-5/16” (135mm) H x 2-3/16” (56mm) W x 1-1/8” (29mm) D.

- **CCSRN36**
  - Same as CCSRN36, except with 8 (positive or negative) input expansion module, 12 total inputs.

- **CCSRNTA3**
  - Same as CCSRN3, with Traffic Advisor module.

- **CCSRNT3A**
  - Same as CCSRNTA3, except with 8 (positive or negative) input expansion module, 12 total inputs.

- **CCSRNT32**
  - Same as CCSRN32, with Traffic Advisor module.

- **CCSRNT33**
  - Same as CCSRNT33, with Traffic Advisor module.

- **CCSRNT34**
  - Same as CCSRNT34, with Traffic Advisor module.

- **CCSRNT35**
  - Same as CCSRNT35, with Traffic Advisor module.

- **CCSRNT36**
  - Same as CCSRNT36, with Traffic Advisor module.

- **CCSRNT3F**
  - Same as CCSRNT36, except with 8 (positive or negative) input expansion module, 12 total inputs.

### OPTION

- **CCTRIM**
  - Trim ring for semi-flush mounting of control head.
NEW 295SDA1 SIREN FEATURES
- User definable functionality!
- Two independent siren amplifiers in one housing.
- Each can drive one 100 watt siren speaker.
- Short circuit and under/over voltage protection.
- LED indicators for speaker and input voltage diagnostics.
- California Title XIII compliant tone setup.
- Multiple programmable tones with Radio Repeat and PA.
- Horn-ring transfer relay built-in.
- Siren "in use" icon appears on video recording to confirm siren activation.
- Three 20 amp relay controlled outputs with built-in fuses.
- Eight 10 amp relay controlled outputs with built-in fuses (two of them include a choice of independent inputs or the standard power bus switching).
- Siren disable (Park Kill) control input.
- Two wire Traffic Advisor™ control.
- Two year warranty.

CONTROLLER FEATURES
- Eleven programmable power distribution switches.
- All switches can be programmed to activate any combination of the relay outputs.
- Any light control switch can be programmed to activate any of the 8 momentary switches.
- Programmed momentary switches.
- Copy siren/switch configuration to another unit.
- Easy reset to factory default settings.
- Size Controller:
  3-1/2" (89mm) H x 6-7/8" (175mm) W x 1-1/4" (32mm) D.
- Size Amplifier:
  2-1/4" (57mm) H x 8-5/8" (219mm) W x 7-1/8" (180mm) D.
- Weight: 5.25 lbs. (2.38kg)

HHS2200 REMOTE SIREN WITH HAND HELD CONTROLLER
- User definable functionality!
- Compact hand held controller with built-in microphone.
- Multiple programmable siren tones.
- Easily control all light and siren functions.
- Hand’s-Free feature.
- Moisture resistant.
- Features twelve rubberized, backlit push-buttons.
- Progressive 3-position push-button lighting control.
- Microprocessor controlled and rated for up to two 100 watt speakers.
- Meets SAE Class 1 when used with Whelen 100 watt speakers.
- Size: Amp/Relay module: 2-1/2" (65mm) H x 8" (203mm) W x 7" (184mm) D.
  Control head: 5-5/16 " (135mm) H x 2-1/4" (57mm) W x 1-1/8" (28mm) D.

GAMMA2™ 100 WATT SELF-CONTAINED ECONOMICAL SIREN
- Meets SAE Class A sound requirements when used with most 100 watt speakers.
- Meets California Title XIII requirements.
- Twenty-three Scan-Lock™ siren tones.
- Two On/Off 20 amp auxiliary rocker switches with LED “On” indicators, control auxiliary equipment.
- Stand-by button provides Hands-Free operation/override from horn ring.
- Tone button activates Wail tone (may be programmed for other tones).
- Manual button generates a variety of tones as pre-selected by user, up to 3 tones.
- Horn button generates an Airhorn tone.
- Easy to install with standard bail-strap mounting bracket.
- 2 year warranty.
- Size: 2-1/4" (57mm) H x 5-3/8" (137mm) W x 5-1/2" (140mm) L.

EPSILON™ ECONOMIC SELF-CONTAINED ELECTRONIC SIREN
- Single or dual speaker versions.
- Unit provides a PA volume control knob for the noise cancelling microphone, On/Off switch, manual button and 7-position tone/radio rotary switch.
- Meets SAE Class A sound requirements when used with most 100 watt speakers.
- LED backlighting.
- Nine Scan-Lock siren tones to choose from; Three are California Title 13 compliant.
- Hands-Free operation/override from the horn ring.
- Includes all the necessary mounting hardware and input pigtail connector.
- Pre-wired with quick disconnect plug for easy service and prompt replacement.
- 12 VDC.
- 2 year warranty.
- Size: EPSL1: 2-1/4" (57mm) H x 5-7/8" (149mm) W x 5-3/4" (146mm) D.
  EPSL2S6/9: 3-1/4" (83mm) H x 5-15/16" (150mm) W x 5-5/8" (143mm) D.

EPSL1: 100 watt amplifier.
EPSL2S6: Siren amplifier with six switch controlled outlets. Operates one or two 100 watt siren speakers.
EPSL2S9: Siren amplifier with four position slide switch and six On/Off toggle switches. Operates one or two 100 watt siren speakers.

For product specifications see page 27
Siren Amplifiers

295 SERIES SIREN AMPLIFIERS

- AMECa certified to meet Class A requirements of SAE, KKK1822 and California Title XIII specifications (Certifications are based on siren and speaker combination).
- Can run one 100 watt or two 100 watt speakers.
- Hands-Free operation, real-time Diagnostix™.
- Adjustable microphone and radio repeat volume controls.
- Standard features include manual, Wail, Yelp, Airhorn and Piercer Tones.
- SI TEST®, fully diagnostic silent test of amplifier and speaker(s).
- Adjustable intensity backlighting in soft LED non-glare Green.
- Exclusive five year, HDP® Heavy-Duty Professional warranty.

295LSA1

- Full function siren with multiple Scan-Lock™ siren tones.
- Park-kill, radio repeat and public address.
- Operates up to two 100 watt speakers.
- Backward compatible with 295HFSA1.
- Pre-wired unidirectional microphone.
- Size: 2-1/2” (63mm) H x 6” (152mm) W x 7” (178mm) D.
  Weight: 4 lbs. 10 oz. (2.1kg).

295HFS2

- Remote full function siren amplifier with flush mounted control head.
- Operates up to two 100 watt speakers.
- Hard-wired microphone.
- Control Head Size: 2-7/8” (73mm) H x 6-1/4” (159mm) W x 2-3/8” (60mm) D.
  Weight: 4 lbs. 10 oz. (2.1kg).
  Amplifier Size: 2-3/8” (60mm) H x 6” (152mm) W x 7” (178mm) D.
  Weight 3-1/2 lbs., (1.6kg).

295HFS2X

- Same as 295HFS2 except with dual amplifiers, meets California Title XIII specs.

295HFS3

- Remote full function, siren amplifier.
- Compact surface or under dash mount control head.
- Hard-wired microphone.
- Operates up to two 100 watt speakers.
- Control Head Size: 2” (51mm) H x 6” (152mm) W x 2-3/8” (60mm) D.
  Weight: 4 lbs., (1.8kg).
  Amplifier Size: 2-3/8” (60mm) H x 6” (152mm) W x 7” (178mm) D.
  Weight: 3-1/2 lbs., (1.6kg).

295HFS4

- Remote full function lights and siren amplifier with surface mount control head.
- Six low current switches and three position slide switch.
- LED lighted function “On” indicators.
- Operates up to two 100 watt speakers.
- Directly compatible with Liberty™, Freedom™, Justice® WeCan®, and 9M Series lightbars.
- Hard-wired microphone.
- Control Head Size: 3-3/8” (86mm) H x 6” (152mm) W x 2-3/8” (60mm) D.
  Weight: 1-1/2 lbs., (.7kg).
  Amplifier Size: 2-3/8” (60mm) H x 6” (152mm) W x 7” (178mm) D.
  Weight: 3-1/2 lbs., (1.6kg).

295HFS5

- Full function, single self-contained unit for siren and light control.
- Low current switching, nine switch light, six function siren.
- Operates up to two 100 watt speakers.
- Park-kill, timed out relay, and California tones.
- Hard-wired microphone.
- Size: 3-5/16” (84mm) H x 6” (152mm) W x 8-3/8” (213mm) D.
  Weight: 4-1/2 lbs., (2kg).

For product specifications see page 27
Siren Amplifiers

**295SLSA6**
- Self-contained siren and high current light controller with multiple Scan-Lock™ siren tones.
- Operates up to two 100 watt speakers.
- Nine individually programmable switches.
- Park-kill, timed out relay, and California tones.
- Hard-wired microphone.
- Size: 3-5/16" (84mm) H x 6" (152mm) W x 7" (178mm) D.
- Weight: 4-1/2 lbs., (2kg).

**295HFSA7**
- Dual remote 200 watt, flush mount control head with removable microphone.
- Six function siren with radio repeat and PA.
- Operates two 100 watt speakers in dual or mono modes.
- Surface mount control head.
- External dip switch selectable modes of operation.
- Size: 2-1/2" (64mm) H x 6-7/8" (175mm) W x 2-3/4" (70mm) D.
- Weight: 4-1/2 lbs., (2kg).

**295HFSC9**
- Self-contained, 200 watt, dual or mono sound control.
- Operates up to two 100 watt speakers.
- Eight programmable operating profiles.
- Park-kill, siren shut-down, radio repeat, mechanical siren, airhorn, and California tones.
- Removable microphone.
- California Title XIII compliant.
- Short circuit protection.
- Size: 2-1/4" (57mm) H x 6" (152mm) W x 7" (177mm) D.
- Weight: 4 lbs. 7 oz.

**295HFSDA**
- Second 100/200 watt amplifier and interconnect kit for dual amplifier operation for use with 295HFS2, 295HFS3 or 295HFS4 systems.
- Amplifier Size: 2-3/8" (60mm) W x 7" (178mm) D.
- Weight: 3 lbs., (6.6kg).

**WPKM1**
- Park-kill connection module, 30 amp (for 295SLSA1, 295HFSA5 and 295SLS6 Series only).

**Economically Priced Electronic Sirens**

**295SSL100**
- Full function siren plus radio repeat and public address.
- Operates up to two 100 watt speakers.
- Includes Hands-Free operation and multiple Scan-Lock siren tones (patent pending).
- Self-contained unit for under-dash mounting.
- Hard-wired noise cancelling microphone.
- Backward compatible to the original 295HF100 and WS2100 Series.
- Two year warranty.
- Size: 2-1/2" (64mm) H x 6" (152mm) W x 5-1/2" (138mm) D.
- Weight: 3 lbs. 12 oz., (1.7kg).

**295SSL101**
- Similar to 295SSL100 except includes a removable microphone and volume control knob.

*For product specifications see page 27*
Siren Amplifiers

**POWER AIRHORN™ SERIES**
- Perfect for volunteer fire personnel, security, escort and undercover vehicles.
- Delivers 100 watts of power to a 100 watt siren speaker (purchased separately).
- Housing mounts the in trunk, under the seat or other remote location.

**PAH112**  Power Airhorn 100 watt amplifier, 12.8 VDC.
Size: 2-1/2” (64mm) H x 6-7/8” (171mm) W x 6-3/4” (171mm) D. Weight: 2.5 lbs., (1.14kg).

**PAP112**  Power Airhorn Plus™ 100 watt amplifier with microphone.

**PAPEXT15**  Optional 15” extension cable for PAP112 microphone.

**ALPHA™ SERIES**
- Economical, four tone, 100 watt siren.
- For applications not requiring Public Address or Radio Repeat.
- Meets Class A requirements with most 100 watt speakers. 12 VDC.

**ALPHA12S**  Self-contained 12 VDC siren.
Size: 2-1/2” (64mm) H x 6” (152mm) W x 4-5/8” (117mm) D. Weight: 2 lbs., 4 oz. (1kg).

**ALPHASL**  Remote 12 VDC selectable four tone Hands-Free siren amplifier for a single 100 watt speaker.
Requires separate switches, sold separately (replaces ALPHA12R).
Size: 2-1/4” (54mm) H x 5” (127mm) D x 4-3/4” (120mm) L. Weight: 2 lbs., 7oz. (1.1kg).

**ALPHA 1-5**  Choose from one to five optional switches for use with ALPHASL.

**BETA™ SERIES**
- Economical, four tone 100 watt siren amplifier with Radio Repeat and Public Address.
- Hands-Free operation.
- Meets Class A requirements with most 100 watt speakers.
- Dip switches on the rear of the amplifier allows for easy set-up and configuration to most local requirements.
- 12 VDC.

**BETA112R**  Remote 12 VDC siren amplifier with PA and radio repeat.
Size: 2-3/8” (60mm) H x 7-1/8” (181mm) W x 5-1/2” (140mm) D. Weight: 2 lbs., 7oz. (1.1kg).

**BETA1**  Control head with noise cancelling microphone. 15” cable. Requires BETA112R siren amplifier, sold separately.
Size: 2” (51mm) H x 4-1/2” (114mm) W x 2-1/2” (64mm) D. Weight: 1 lb., .45kg.

**BETA2**  Fully encapsulated surface mount control head is moisture resistant. Sealed toggle and rotary switches. Removable noise canceling microphone. 20’ cable and connectors. Requires BETA112R siren amplifier, sold separately.
Size: 1-3/4” (44mm) H x 4-1/4” (108mm) W x 2” (51mm) D. Weight: 1 lb., 4 oz. (6kg).

Siren Speakers

**PROJECTOR™ SERIES**
- High performance, multi-port 100 watt speaker.
- Narrow, non-corrosive aluminum or nylon composite housing.
- Installs to vehicle’s cross member in minutes.
- All models exceed CA Title XIII, Class A and SAE J1849 requirements.
- Options include mounting brackets for many police vehicles and motorcycles.
- Refer to current price list for details.
- Size: SA314A: 6-3/16” (156mm) H x 6-7/16” (163mm) W x 3-1/8” (79mm) D.
SA315: 6-1/2” (165mm) H x 6-1/2” (165mm) W x 2-7/8” (74mm) D.

**SA314A**  Natural cast aluminum.
**SA314B**  Black epoxy coated cast aluminum.
**SA315P**  Black nylon composite.

**SA340TS**  High efficiency plastic rectangular speaker horn.
Size: 5” (127mm) H x 8” (203mm) W x 7” (178mm) D. Weight: 11lbs., (5kg).

**SA340STS**  Compact, round aluminum speaker horn. 100 watt, high efficiency driver.
Size: 5-5/8” (143mm) H x 5-5/8” (143mm) W x 6-13/16” (173mm) D. Weight: 11lbs., (5kg).

For product specifications see page 27
Howler™ Low Frequency Tone Siren and Speaker System

An added layer of warning for intersections and high risk areas when used with your 100/200 watt siren amplifier. Howler provides deep, low frequency tones, which penetrate other vehicles, alerting drivers and pedestrians of your approach. Howler is not a replacement to the vehicle’s primary siren; Howler adds a minimum eight second penetrating burst of low frequency siren sound for use in heavy traffic, intersections or other high ambient noise conditions.

**FEATURES**
- The Howler is an add-on to any 100-200 watt warning siren such as the Whelen 295SL Series.
- Howler’s low-frequency tones are synchronous with your primary siren tones to penetrate high noise, high traffic situations, alerting drivers and pedestrians of your approach.
- Works with any sweeping tone, plus Hi/Low and electronic mechanical tone generated by the primary siren.
- Adds an 8 to 60 second (customer programmable) penetrating burst for use in heavy traffic, intersections or other high ambient noise situations.
- Select from 3 frequency bands and 8 tone durations.
- Push-on/Push-off button activates/deactivates the siren, allowing radio transmission to the vehicle without waiting for the unit to time out.
- Models available with one or two speakers.
- Built-in timer limits over-exposure time to operator (approved hearing protection advised).
- Choose from a host of vehicle specific mountings. Consult current price list for vehicle listings.
- Size: Speaker without bracket: 7-1/4” (184mm) Dia. x 9” (229mm) L. Amplifier: 2-1/4” (54mm) H x 5” (127mm) D x 4-3/4” (120mm) L.

Howler low frequency tone siren, includes siren amplifier and speaker(s), Works in conjunction with existing siren systems purchased separately.

**MODELS**

<table>
<thead>
<tr>
<th>Model Code</th>
<th>Year Range</th>
<th>Vehicle Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HWLCC11</td>
<td>2011-2013</td>
<td>Chevy Caprice</td>
<td>Siren Amplifier with one Speaker, includes mounting bracket.</td>
</tr>
<tr>
<td>HWLFT11</td>
<td>2010-2014</td>
<td>Ford Taurus/Police Interceptor</td>
<td>Siren amplifier with one speaker, includes mounting bracket.</td>
</tr>
<tr>
<td>HWLCH12</td>
<td>2012</td>
<td>Chevy Impala</td>
<td>Siren amplifier with one speaker, includes mounting bracket.</td>
</tr>
<tr>
<td>HOWLER2</td>
<td>2008-2013</td>
<td>Ford Expedition</td>
<td>Siren amplifier with two speakers and mounting brackets.</td>
</tr>
<tr>
<td>HOWLER4</td>
<td>2008-2011</td>
<td>Ford E-Series</td>
<td>Siren amplifier with two speakers and mounting brackets.</td>
</tr>
<tr>
<td>HOWLER5</td>
<td>2008-2013</td>
<td>Chevy Suburban 1/2 Ton</td>
<td>Siren amplifier with two speakers and mounting brackets.</td>
</tr>
<tr>
<td>HOWLER7</td>
<td>2008-2011</td>
<td>Chevy Impala</td>
<td>Siren amplifier with two speakers and mounting brackets.</td>
</tr>
<tr>
<td>HOWLER9</td>
<td>2009-2011</td>
<td>Chevy 2500/3500 Silverado and Chevy Suburban 3/4 Ton</td>
<td>Siren amplifier with two speakers and mounting brackets.</td>
</tr>
<tr>
<td>HOWLER11</td>
<td>2011</td>
<td>Chevy Express G-Series</td>
<td>Siren amplifier with two speakers and mounting brackets.</td>
</tr>
<tr>
<td>HOWLER12</td>
<td>2011-2013</td>
<td>Ford F250-F550 Super-Duty</td>
<td>Siren amplifier with two speakers and mounting brackets.</td>
</tr>
<tr>
<td>HOWLER13</td>
<td>2011-2014</td>
<td>Ford Explorer/Police Interceptor Utility</td>
<td>Siren amplifier with two speakers and mounting brackets, driver side bracket includes built-in mounting for a SA315P speaker.</td>
</tr>
<tr>
<td>HOWLER14</td>
<td>2011-2013</td>
<td>Dodge 4500</td>
<td>Siren amplifier with two speakers and mounting brackets.</td>
</tr>
<tr>
<td>HOWLER15</td>
<td>2011-2013</td>
<td>Dodge Charger (not for V6)</td>
<td>Siren amplifier with two speakers and mounting brackets.</td>
</tr>
<tr>
<td>HOWLER18</td>
<td>2012-2013</td>
<td>Chevy 2500/3500 Silverado and Chevy Suburban 3/4 Ton</td>
<td>Siren amplifier with two speakers and mounting brackets.</td>
</tr>
</tbody>
</table>
POWER CONTROL CENTERS & SWITCHES

PCCS9RW AND PCCS9NP
- Nine switch functions with programmable slide lever for 3 primary warning controls.
- Low profile, all extruded aluminum housings.
- LED On/Off indicators.
- Six push-button switches for secondary functions.
- Backlighted legend windows and 72 standard press-on legend tabs.
- Adjustable ball brackets.

PCCS9NP: Programmable low current control switch center for use with Liberty™, Freedom™, Justice® WeCan®, Legacy™ and other lightbars with low current switching (3 position slide switch, 6 push-on/push-off buttons for secondary lightbar functions).

PCCS9RW: High current with built-in relays, for lightbars that use standard switching. Connects to most lightbars and auxiliary warning equipment without the use of separately mounted relays or relay boxes. Front panel programmable slide switch with three 20 amp relays. Six front panel programmable push-buttons with 20 amp relays for secondary lightbar functions. Momentary contact for strobe low power, trunk lock or gun lock.

PCC4W, PCC6W AND PCC10W
- Four, six or ten lighted SPST switches rated 25 amps peak.
- Rear mounted "captive" terminal block for easy installation.
- Backlighted legend windows and 72 standard press-on legend tabs.

PCC4W: Four 25 amp switches.
PCC6W: Six 25 amp switches.
PCC10W: Ten 25 amp switches.

PC6W1: Similar to PCC6W, except last On/Off switch is replaced with a Momentary Switch.

PC10W1: Similar to PCC10W, except last On/Off switch is replaced with a Momentary Switch.

SWITCH BRACKETS
1SWITCH, 2SWITCH, 3SWITCH and 4SWITCH:
- One, two, three or four PC switch brackets available.
- Choice of illuminated or non-illuminated switches. Specify switch type described below.

PC-1: Single pole, single throw, Illuminated - On/Off.
PC-2: Single pole, single throw, Momentary - On.
PC-3: Single pole, double throw, Illuminated - On/Off/On.
PC-4: Single pole, double throw - On/On.
PC-5: Double pole, double throw - On/On/On.
PC-5S: Double pole, double throw, for Strobe - Hi/Off/Low power control.

PCC8R - 8 FUNCTION POWER CONTROL CENTERS
- Eight position key pad with remote relay box.
- Eight function control center with three 20 amp relays and five 10 amp relays.
- Not programmable.
- Diagnostic feedback for relay confirmation.
- Push-On/Push-Off or momentary activation.
- LED backlit membrane switches are designed with a solid rubber overlay for moisture resistance.
- 12-volt or isolated switching.
- Ignition control available via dip switch.
- 70 Amps maximum.

WCC9 - WE CAN® ELECTRONIC CONTROL HEAD
- For use with Liberty, Freedom and Justice WeCan lightbars.
- Hand held or mounted to the dash or console, the WCC9 replaces the standard ECM (Electronic Control Module).
- May be used with most existing WeCan lightbars or substituted for the WeCan ECM at the time of lightbar purchase.
- Easy to program, install and control.
- Control warning lights, take-downs, alley lights and Traffic Advisor™ from a single key pad.
- Small 22-gauge, 2-conductor cable mates to your WeCan lightbar for easy installation.
- Ten pre-programmed popular warning configurations via 4 dip switches located on the rear of the controller.
- No computer required to program control head.
- LED backlighted push-buttons with bright LED On/Off indicators. Function labels are included.
- Membrane switches provide tactile feedback of activation and are equipped with a solid rubber overlay for moisture resistance.
- Surface mounting plate allows for vertical or horizontal mounting of control head.
- 5-conductor, 3' input/output harness standard.
### LIGHTBAR SPECIFICATIONS

#### LEGACY™ SERIES LIGHTBARS

<table>
<thead>
<tr>
<th>Model</th>
<th>VDC</th>
<th>Amp Draw (per corner lamp)</th>
<th>Maximum Number of Modules</th>
<th>Type of Corner Modules</th>
<th>Dimensions in inches and (mm) H x W x L</th>
</tr>
</thead>
<tbody>
<tr>
<td>GB4****</td>
<td>12</td>
<td>3 A / peak 1.2 A / average</td>
<td>18</td>
<td>Multi-Angled</td>
<td>1-5/8 (41mm) x 11-5/16” (287mm) x 43-1/4” (110cm)</td>
</tr>
<tr>
<td>GB4###</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1-5/8 (41mm) x 11-5/16” (287mm) x 48” (123cm)</td>
</tr>
<tr>
<td>GB8###</td>
<td></td>
<td></td>
<td>22</td>
<td></td>
<td>1-5/8 (41mm) x 11-5/16” (287mm) x 54” (136cm)</td>
</tr>
</tbody>
</table>

**OPTIONS INCLUDE:** One Single Color DUO+™ Short or Long Super-LED® Lighthouse • One Dual Color DUO+ Short or Long Super-LED Take-Down Lights • Two Super-LED Alley Lights • One Single or One Dual Color Super-LED DUO+ Warning/Warning or Warning/Alley Light

#### LFL LIBERTY™ “SW” & “SA” WECAN® PROGRAMMABLE LIGHTBARS

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage</th>
<th>Amp Draw (per corner lamp)</th>
<th>Maximum Number of Modules</th>
<th>Type of Corner Modules</th>
<th>Dimensions in inches and (mm) H x W x L</th>
</tr>
</thead>
<tbody>
<tr>
<td>SW4 / SA4</td>
<td>12.8</td>
<td>1.5</td>
<td>14 (19 with split TA)</td>
<td>4 Extended Linear-LED® modules</td>
<td>2-1/2 (64) x 12 (304) x 43-1/8 (109cm)</td>
</tr>
<tr>
<td>SW8 / SA8</td>
<td>12.8</td>
<td>2</td>
<td>18 (24 with split TA)</td>
<td>4 extra high intensity extended modules</td>
<td>2-1/2 (64) x 12 (304) x 48-1/2 (123cm)</td>
</tr>
<tr>
<td>SW2 / SA2</td>
<td>12.8</td>
<td></td>
<td>14 (19 with split TA)</td>
<td>4 Extended Linear-LED® modules</td>
<td>2-1/2 (64) x 12 (304) x 53-7/8 (137cm)</td>
</tr>
</tbody>
</table>

**OPTIONS INCLUDE:** Adjustable Color Flashing LR11 Super-LEDs in Alley Light Position • Adjustable LR11 Super-LED Flashing Take-Downs and Alley Lights • Adjustable Dual LR11 Super-LED Flashing Take-Downs • Inboard Super-LED Directional Modules • Adjustable LR11 LED Work Lights • Super-High Intensity LED Work Lights • Remote Strobe for Center Section • Halogen Work Lights • LED Brake/Tail/Turn Lights • Five or Six Lamp Linear-LED Split Traffic Advisor, with or without Control Head • GTT Opticom™ Emitter • Driver side Cable Exit • Solar Panel

#### LFL LIBERTY™ “SX” & “SY” SERIES LIGHTBARS

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage</th>
<th>Amp Draw (per corner lamp)</th>
<th>Maximum Number of Modules</th>
<th>Type of Corner Modules</th>
<th>Dimensions in inches and (mm) H x W x L</th>
</tr>
</thead>
<tbody>
<tr>
<td>SX4 / SY4</td>
<td>12.8</td>
<td>1.5</td>
<td>14 (19 with split TA)</td>
<td>4 Extended Linear-LED® modules</td>
<td>2-1/2 (64) x 12 (304) x 43-1/8 (109cm)</td>
</tr>
<tr>
<td>SX8 / SY8</td>
<td>12.8</td>
<td></td>
<td>18 (24 with split TA)</td>
<td>4 extra high intensity extended modules</td>
<td>2-1/2 (64) x 12 (304) x 48-1/2 (123cm)</td>
</tr>
<tr>
<td>SX2 / SY2</td>
<td>12.8</td>
<td></td>
<td>18 (24 with split TA)</td>
<td>4 Extended Linear-LED® modules</td>
<td>2-1/2 (64) x 12 (304) x 53-7/8 (137cm)</td>
</tr>
</tbody>
</table>

**OPTIONS INCLUDE:** Adjustable Color Flashing LR11 Super-LEDs in Alley Light Position • LR11 Super-LED Flashing Take-Down and Alley Lights • Dual LR11 Super-LED Flashing Take-Downs and Alley Lights • Super High Intensity LED Work Lights • LR11 Super-LED Flashing Alley Lights • Inboard Super-LED Directional Modules • Super-LED High Intensity, Flashing Take-Downs • Remote Strobe for Center Section • Cruise Light Mode of Corner Linear-LED • Five or Six Lamp Linear-LED Traffic Advisor, with or without Control Head • Criss-Cross Flash Pattern of End Linear-LEDs
### Liberty™ Duo™ “SA” & “SY” Programmable Lightbars

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage</th>
<th>Amp Draw (per corner lamp)</th>
<th>Maximum Number of Modules</th>
<th>Type of Corner Modules</th>
<th>Dimensions in inches and (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SA4 / SY4</td>
<td>12.8</td>
<td>1.5</td>
<td>4 Single Color &amp; 10 DUO Modules (Plus two alley light modules)</td>
<td>4 single color modules</td>
<td>2-1/2” (64mm) H x 12” (304mm) W x 43-1/8” (109cm)</td>
</tr>
<tr>
<td>SA8 / SY4</td>
<td>12.8</td>
<td>1.5</td>
<td>4 Single Color &amp; 12 DUO Modules (Plus two alley light modules)</td>
<td>Choice of 4 single or DUO color modules</td>
<td>2-1/2” (64mm) H x 12” (304mm) W x 48-1/2” (123cm)</td>
</tr>
<tr>
<td>SA2 / SY4</td>
<td>12.8</td>
<td>1.5</td>
<td></td>
<td></td>
<td>2-1/2” (64mm) H x 12” (304mm) W x 53-7/8” (137cm)</td>
</tr>
</tbody>
</table>

**Options Include:** One Duo color inboard Super-LED® directional lighthead • Two LRI11 Super-LED flashing alley lights with 15° horizontal adjustment • Two LRI11 Super-LED flashing take-down lights with 15° horizontal adjustment • Two super high intensity LED take-down lights • Two super high intensity LED work lights • Five DUO color Linear Super-LED Traffic Advisor (for SY and SZ Series Only) • Six DUO color Linear Super-LED Traffic Advisor, WeCan Series Only • Six DUO color Linear Super-LED Traffic Advisor, WeCan Series only • Photo cell option for Hi/Low power • Photo cell option for Hi/Low power (WeCan series Only) • Quick disconnect plug for WeCan • Solar panel to reduce parasitic draw, for low-current series with passenger side cable exit • Solar panel to reduce parasitic draw, for WeCan series with passenger side cable exit

### Liberty™ Trio Programmable Lightbars

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage</th>
<th>Amp Draw (per corner lamp)</th>
<th>Maximum Number of Modules</th>
<th>Type of Corner Modules</th>
<th>Dimensions in inches and (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRIO WECAN® Programmable Lightbars</td>
<td>S34</td>
<td>12.8</td>
<td>13 Trio Modules (Plus two take-downs &amp; 2 alley lights)</td>
<td>4 corner 3-Color Modules</td>
<td>2-1/2” (64mm) H x 12” (304mm) W x 43-1/8” (109cm)</td>
</tr>
<tr>
<td></td>
<td>S38</td>
<td>12.8</td>
<td>14 Trio Modules (Plus two take-downs &amp; 2 alley lights)</td>
<td></td>
<td>2-1/2” (64mm) H x 12” (304mm) W x 48-1/2” (123cm)</td>
</tr>
<tr>
<td></td>
<td>S32</td>
<td>12.8</td>
<td></td>
<td></td>
<td>2-1/2” (64mm) H x 12” (304mm) W x 53-7/8” (137cm)</td>
</tr>
</tbody>
</table>

**Options Include:** Substitute a Single high intensity take-down light for the single dual LRI11 take-downs (44’’ TRIO bars only) • Substitute two dual LRI11 take-down lights for two single LRI11 take-down lights (48’’ and 54’’ TRIO lightbars only) • Substitute Two super high intensity take-down lights for two single LRI11 take-down lights (48’’ and 54’’ TRIO lightbars only)
### JUSTICE "JC" COMPETITOR™ LIGHTBARS

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage</th>
<th>Amp Draw (per corner lamp)</th>
<th>Maximum Number of Modules</th>
<th>Type of Corner Modules</th>
<th>Dimensions in inches and (mm)</th>
<th>H x W x L</th>
</tr>
</thead>
<tbody>
<tr>
<td>JC4</td>
<td>12.8</td>
<td>1.5</td>
<td>20</td>
<td>4 Linear-LED® modules with 9 Super-LEDs per module</td>
<td>2-1/2” (64) x 12” (304) x 44” (112cm)</td>
<td></td>
</tr>
<tr>
<td>JC8</td>
<td>12.8</td>
<td>1.5</td>
<td>24</td>
<td>4 Linear-LED® modules with 6 Super-LEDs per module</td>
<td>2-1/2” (64) x 12” (304) x 56-1/4” (143cm)</td>
<td></td>
</tr>
<tr>
<td>JC2</td>
<td>12.8</td>
<td>1.5</td>
<td>24</td>
<td>4 Linear-LED® modules with 6 Super-LEDs per module</td>
<td>2-1/2” (64) x 12” (304) x 56-1/4” (143cm)</td>
<td></td>
</tr>
</tbody>
</table>

**OPTIONS INCLUDE:** CON3™ Modules • LTR3™ Modules • LING™ Modules • Adjustable LR11 Alley and Take-Down Lights • LED Brake/Tail/Turn • MR11 Flashing Take-Downs • Traffic Advisor™

### JUSTICE "JE" COMPETITOR LIGHTBARS

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage</th>
<th>Amp Draw (per corner lamp)</th>
<th>Maximum Number of Modules</th>
<th>Type of Corner Modules</th>
<th>Dimensions in inches and (mm)</th>
<th>H x W x L</th>
</tr>
</thead>
<tbody>
<tr>
<td>JE4</td>
<td>12.8</td>
<td>1</td>
<td>20</td>
<td>4 Linear-LED® modules with 6 Super-LEDs per module</td>
<td>2-1/2” (64) x 12” (304) x 44” (112cm)</td>
<td></td>
</tr>
<tr>
<td>JE8</td>
<td>12.8</td>
<td>1</td>
<td>24</td>
<td>4 Linear-LED® modules with 6 Super-LEDs per module</td>
<td>2-1/2” (64) x 12” (304) x 56-1/4” (143cm)</td>
<td></td>
</tr>
</tbody>
</table>

### JUSTICE "JV" WE CAN® PROGRAMMABLE LIGHTBARS

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage</th>
<th>Amp Draw (per corner lamp)</th>
<th>Maximum Number of Modules</th>
<th>Type of Corner Modules</th>
<th>Dimensions in inches and (mm)</th>
<th>H x W x L</th>
</tr>
</thead>
<tbody>
<tr>
<td>JV4</td>
<td>12.8</td>
<td>1.5</td>
<td>22</td>
<td>4 Linear-LED modules with 9 Super-LEDs per module</td>
<td>2-1/2” (64) x 12” (304) x 44” (112cm)</td>
<td></td>
</tr>
<tr>
<td>JV8</td>
<td>12.8</td>
<td>1.5</td>
<td>26</td>
<td>4 Linear-LED modules with 6 Super-LEDs per module</td>
<td>2-1/2” (64) x 12” (304) x 56-1/4” (143cm)</td>
<td></td>
</tr>
</tbody>
</table>

### JUSTICE "JY" WE CAN PROGRAMMABLE LIGHTBARS

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage</th>
<th>Amp Draw (per rotator)</th>
<th>Maximum Number of Modules</th>
<th>Type of Corner Modules</th>
<th>Dimensions in inches and (mm)</th>
<th>H x W x L</th>
</tr>
</thead>
<tbody>
<tr>
<td>JY4</td>
<td>12.8</td>
<td>1.6</td>
<td>22</td>
<td>4 Linear-LED modules with 6 Super-LEDs per module</td>
<td>2-1/2” (64) x 12” (304) x 44” (112cm)</td>
<td></td>
</tr>
<tr>
<td>JY8</td>
<td>12.8</td>
<td>1.6</td>
<td>26</td>
<td>4 Linear-LED modules with 6 Super-LEDs per module</td>
<td>2-1/2” (64) x 12” (304) x 56-1/4” (143cm)</td>
<td></td>
</tr>
</tbody>
</table>

### DELTA™ ROTA-BEAM™ SERIES LIGHTBARS

<table>
<thead>
<tr>
<th>Model</th>
<th>VDC</th>
<th>Amp Draw (per rotator)</th>
<th>Maximum Number of Modules</th>
<th>Type of Corner Modules</th>
<th>Dimensions in inches and (mm)</th>
<th>H x W x L</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSB****</td>
<td>12</td>
<td>2.25 A / peak 1.2 A / average</td>
<td>5 Solid-State Rotators</td>
<td>2 Solid-State Rotators</td>
<td>5-1/2” (140mm) x 16-3/4” (425mm) x 49-3/4” (126cm)</td>
<td></td>
</tr>
<tr>
<td>DS2****</td>
<td>12</td>
<td>2.25 A / peak 1.2 A / average</td>
<td>5 Solid-State Rotators</td>
<td>2 Solid-State Rotators</td>
<td>5-1/2” (140mm) x 16-3/4” (425mm) x 56-5/16” (143cm)</td>
<td></td>
</tr>
</tbody>
</table>

**OPTIONS INCLUDE:** One single color Super-LED® beacon • One dual color Super-LED beacon • Angled mirror • Two LR11 Super-LED take-down lights with 15° horizontal adjustment • Two dual LR11 Super-LED take-down lights with 15° horizontal adjustment • Two LR11 Super-LED take-down lights with 15° horizontal adjustment • One Super-LED lighthead, requires optional DSFLASH™ Flasher for front or rear DS2™, purchased separately, up to two per bar. Each front or rear flasher controls up to 4 lights (8 total)
## Ultra Freedom™ II “FC” Series Lightbars

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage</th>
<th>Amp Draw (per corner lamp)</th>
<th>Maximum Number of Modules</th>
<th>Type of Corner Modules</th>
<th>Dimensions in inches and (mm) H x W x L</th>
</tr>
</thead>
<tbody>
<tr>
<td>FC4</td>
<td>12.8</td>
<td>2.5</td>
<td>16 (30 split over/under)</td>
<td>4 extended over/under</td>
<td>3-3/4 (95) x 12 (304) x 44-3/8 (113cm)</td>
</tr>
<tr>
<td>FC8</td>
<td>12.8</td>
<td>2.5</td>
<td>18 (34 split over/under)</td>
<td>4 extended over/under</td>
<td>3-3/4 (95) x 12 (304) x 49-3/4 (126cm)</td>
</tr>
<tr>
<td>FC2</td>
<td>12.8</td>
<td>2.5</td>
<td>18 (34 split over/under)</td>
<td>4 extended over/under</td>
<td>3-3/4 (95) x 12 (304) x 55-1/8 (140cm)</td>
</tr>
</tbody>
</table>

**Options Include:**
- Inboard Directional Super-LED modules
- Two Duplex Split Color Inboard Super-LED modules
- Two Dual Super-LED Flashing Take-Down Lights
- Two Halogen Flashing Take-Down Lights
- Two Dual LR11 Super-LED Flashing Alleys
- Two Halogen Work Lights
- Cruise Light Mode of Corner Linear-LED Module
- Five or Six Lamp LED Traffic Advisor
- Five or Six Lamp Linear Super-LED Traffic Advisor, with or without Control Head
- Five or Six Lamp Duplex Traffic Advisor, with or without Control Head
- Drivers Side Cable Exit
- Custom Lengths
- Pre-Wired for GTT Opticom® Emitter for 49” & 55” Lightbars

## Ultra Freedom “FW” Wecan® Programmable Lightbars

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage</th>
<th>Amp Draw (per corner lamp)</th>
<th>Maximum Number of Modules</th>
<th>Type of Corner Modules</th>
<th>Dimensions in inches and (mm) H x W x L</th>
</tr>
</thead>
<tbody>
<tr>
<td>FW4</td>
<td>12.8</td>
<td>2.5</td>
<td>16 (21 with duplex TA)</td>
<td>4 Extended Linear-LED® modules</td>
<td>3-3/4 (95) x 12 (304) x 44-3/8 (113cm)</td>
</tr>
<tr>
<td>FW8</td>
<td>12.8</td>
<td>2.5</td>
<td>18 (24 with duplex TA)</td>
<td>4 Extended Linear-LED® modules</td>
<td>3-3/4 (95) x 12 (304) x 49-3/4 (126cm)</td>
</tr>
<tr>
<td>FW2</td>
<td>12.8</td>
<td>2.5</td>
<td>18 (24 with duplex TA)</td>
<td>4 Extended Linear-LED® modules</td>
<td>3-3/4 (95) x 12 (304) x 55-1/8 (140cm)</td>
</tr>
</tbody>
</table>

**Options Include:**
- Inboard Directional Super-LED® modules
- Two Duplex Split Color Inboard Super-LED modules
- Two Dual Super-LED Flashing Take-Down Lights
- Two Halogen Flashing Take-Down Lights
- Two Halogen Flashing Alley Lights
- Two Halogen Work Lights
- Two LED Brake/Tail/Turn Lights
- Cruise Light Mode of Corner Linear-LED® Module
- Five or Six Lamp LED Traffic Advisor
- Five or Six Lamp Linear Super-LED Traffic Advisor, with or without Control Head
- Five or Six Lamp Duplex Traffic Advisor, with or without Control Head
- Drivers Side Cable Exit
- Custom Lengths
- Pre-Wired for GTT Opticom® Emitter for 49” & 55” Lightbars

## Ultra Freedom “FV” Wecan® Programmable Lightbars

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage</th>
<th>Amp Draw (per corner lamp)</th>
<th>Maximum Number of Modules</th>
<th>Type of Corner Modules</th>
<th>Dimensions in inches and (mm) H x W x L</th>
</tr>
</thead>
<tbody>
<tr>
<td>FV4</td>
<td>12.8</td>
<td>1.6</td>
<td>16 (21 with duplex TA)</td>
<td>4 Linear-LED® modules</td>
<td>3-3/4 (95) x 12 (304) x 44-3/8 (113cm)</td>
</tr>
<tr>
<td>FV8</td>
<td>12.8</td>
<td>1.6</td>
<td>18 (24 with duplex TA)</td>
<td>4 Linear-LED® modules</td>
<td>3-3/4 (95) x 12 (304) x 49-3/4 (126cm)</td>
</tr>
<tr>
<td>FV2</td>
<td>12.8</td>
<td>1.6</td>
<td>18 (24 with duplex TA)</td>
<td>4 Linear-LED® modules</td>
<td>3-3/4 (95) x 12 (304) x 55-1/8 (140cm)</td>
</tr>
</tbody>
</table>

**Options Include:**
- Inboard Directional Super-LED® modules
- Two Super-LED Flashing Take-Down Lights
- Two Dual Super-LED Flashing Alley Lights
- Two Halogen Flashing Take-Down Lights
- Two Halogen Flashing Alley Lights
- Two Halogen Work Lights
- Two LED Brake/Tail/Turn Lights
- Cruise Light Mode of Corner Linear-LED® Module
- Five or Six Lamp LED Traffic Advisor
- Five or Six Lamp Linear Super-LED Traffic Advisor, with or without Control Head
- Five or Six Lamp Duplex Traffic Advisor, with or without Control Head
- Drivers Side Cable Exit
- Custom Lengths
- Pre-Wired for GTT Opticom® Emitter for 49” & 55” Lightbars

## Ultra Freedom “FX” Lightbars

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage</th>
<th>Amp Draw (per corner lamp)</th>
<th>Maximum Number of Modules</th>
<th>Type of Corner Modules</th>
<th>Dimensions in inches and (mm) H x W x L</th>
</tr>
</thead>
<tbody>
<tr>
<td>FX4</td>
<td>12.8</td>
<td>2.5</td>
<td>16 (21 with duplex TA)</td>
<td>4 Extended Linear-LED® modules</td>
<td>3-3/4 (95) x 12 (304) x 44-3/8 (113cm)</td>
</tr>
<tr>
<td>FX8</td>
<td>12.8</td>
<td>2.5</td>
<td>18 (24 with duplex TA)</td>
<td>4 Extended Linear-LED® modules</td>
<td>3-3/4 (95) x 12 (304) x 49-3/4 (126cm)</td>
</tr>
<tr>
<td>FX2</td>
<td>12.8</td>
<td>2.5</td>
<td>18 (24 with duplex TA)</td>
<td>4 Extended Linear-LED® modules</td>
<td>3-3/4 (95) x 12 (304) x 55-1/8 (140cm)</td>
</tr>
</tbody>
</table>

**Options Include:**
- Inboard Directional Super-LED® modules
- Two Super-LED Flashing Take-Down Lights
- Two Dual Super-LED Flashing Alley Lights
- Two Halogen Flashing Take-Down Lights
- Two Adjustable Dual LR11 Super-LED Flashing Alleys
- Two Halogen Work Lights
- Cruise Light Mode of Corner Linear-LED® Module
- Five or Six 400 Series LED Traffic Advisor
- Five or Six Lamp LED Traffic Advisor
- Five or Six Lamp Linear Super-LED Traffic Advisor, with or without Control Head
- Drivers Side Cable Exit
- Custom Lengths
- Pre-Wired for GTT Opticom® Emitter for 49” & 55” Lightbars

## Ultra Freedom “FL” Lightbars

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage</th>
<th>Amp Draw (per corner lamp)</th>
<th>Maximum Number of Modules</th>
<th>Type of Corner Modules</th>
<th>Dimensions in inches and (mm) H x W x L</th>
</tr>
</thead>
<tbody>
<tr>
<td>FL4**</td>
<td>12.8</td>
<td>1.6</td>
<td>9 (front &amp; alley only)</td>
<td>2 front Linear-LED® modules</td>
<td>3-3/4 (95) x 12 (304) x 44-3/8 (113cm)</td>
</tr>
<tr>
<td>FL8**</td>
<td>12.8</td>
<td>1.6</td>
<td>10 (front &amp; alley only)</td>
<td>2 front Linear-LED® modules</td>
<td>3-3/4 (95) x 12 (304) x 49-3/4 (126cm)</td>
</tr>
<tr>
<td>FL2**</td>
<td>12.8</td>
<td>1.6</td>
<td>10 (front &amp; alley only)</td>
<td>2 front Linear-LED® modules</td>
<td>3-3/4 (95) x 12 (304) x 55-1/8 (140cm)</td>
</tr>
</tbody>
</table>

**Options Include:**
- Inboard Directional Super-LED® modules
- Two Dual Super-LED Flashing Take-Down Lights
- Two Super-LED Flashing Alley Lights
- Two Halogen Flashing Take-Down Lights
- Two Halogen Flashing Alley Lights
- Two Halogen Work Lights
- Four LED Cruise Lights
- Cruise Light Mode of Corner Linear-LED® Module
- Five or Six 400 Series LED Traffic Advisor
- Five or Six Lamp LED Traffic Advisor
- Five or Six Lamp Linear Super-LED Traffic Advisor, with or without Control Head
- Drivers Side Cable Exit
- Custom Lengths
- Pre-Wired for GTT Opticom® Emitter for 49” & 55” Lightbars

## Freedom™ Rota-Beam Series Lightbars

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage</th>
<th>Amp Draw (per half rotator)</th>
<th>Maximum Number of Modules</th>
<th>Type of Corner Modules</th>
<th>Dimensions in inches and (mm) H x W x L</th>
</tr>
</thead>
<tbody>
<tr>
<td>FR4***</td>
<td>12</td>
<td>2.25 A / peak 1.2 A / average</td>
<td>8</td>
<td>4 180° Solid-State Rotators</td>
<td>3-3/4“ (95mm) H x 12“ (304mm) W x 44-3/8“ (113cm) L</td>
</tr>
<tr>
<td>FR6***</td>
<td>12</td>
<td>2.25 A / peak 1.2 A / average</td>
<td>9</td>
<td>4 180° Solid-State Rotators</td>
<td>3-3/4“ (95mm) H x 12“ (304mm) W x 49-3/4“ (126cm) L</td>
</tr>
<tr>
<td>FR2***</td>
<td>12</td>
<td>2.25 A / peak 1.2 A / average</td>
<td>3</td>
<td>4 180° Solid-State Rotators</td>
<td>3-3/4“ (95mm) H x 12“ (304mm) W x 55-1/8“ (140cm) L</td>
</tr>
<tr>
<td>FRD***</td>
<td>12</td>
<td>2.25 A / peak 1.2 A / average</td>
<td>3</td>
<td>4 180° Solid-State Rotators</td>
<td>3-3/4“ (95mm) H x 12“ (304mm) W x 60“ (152cm) L</td>
</tr>
<tr>
<td>FR7***</td>
<td>12</td>
<td>2.25 A / peak 1.2 A / average</td>
<td>3</td>
<td>4 180° Solid-State Rotators</td>
<td>3-3/4“ (95mm) H x 12“ (304mm) W x 72“ (183cm) L</td>
</tr>
</tbody>
</table>

**Options Include:**
- One Super-LED Rota-Beam module
- Two LR11 Super-LED Alley Lights with 15° horizontal adjustment
- Two dual LR11 Super-LED Alley Lights with 15° horizontal adjustment
- Two LR11 Super-LED take-down lights with 15° horizontal adjustment
- Two LR11 Super-LED take-down lights with 15° horizontal adjustment
- One Super-LED headlight, requires optional FFFLASH® Flasher for front or rear FLD's, purchased separately, up to two per bar. Each front or rear flasher controls up to 4 lights (8 total)
INNER EDGE® LIGHTBAR SPECIFICATIONS

MODELS - DESCRIPTIONS - LAMP TYPE

<table>
<thead>
<tr>
<th>LAMP TYPE</th>
<th>MODELS</th>
</tr>
</thead>
</table>

XLP (EXTRA LOW PROFILE) UPPER FRONT SERIES, 3-LED (shown in Black)

- Five lamp, upper front passenger side unit only, with one LED flashing/take-down
  - IX37UF5P
  - IX13UF5P
  - IXG6UF5P
  - IX42UF5P
  - IX34UF5P
  - IX9UF5P
  - IX8UF5P
  - IX43UF5P

- Six lamps, upper front passenger side unit only (no take-down)
  - IX37UF6P
  - IX13UF6P
  - IXG6UF6P
  - IX42UF6P
  - IX34UF6P
  - IX9UF6P
  - IX8UF6P
  - IX43UF6P

- Ten lamps, upper front two piece unit, individual driver and passenger side units, with two LED flashing/take-downs
  - IX37UFZ
  - IX13UFZ
  - IXG6UFZ
  - IX42UFZ
  - IX34UFZ
  - IX9UFZ
  - IX8UFZ
  - IX43UFZ

- Twelve lamps, upper front two piece unit, individual driver and passenger side units (no take-downs)
  - IX37UFX
  - IX13UFX
  - IXG6UFX
  - IX42UFX
  - IX34UFX
  - IX9UFX
  - IX8UFX
  - IX43UFX

XLP DUO UPPER FRONT SERIES, DUO 6-LED Upper Front Series (shown in Purple)

- Six 6-LED DUO lamps, upper front passenger side unit only
  - IXW37UF6P
  - IXW13UF6P
  - IXW5UF6P
  - IXW42UF6P
  - IXW34UF6P
  - IXW9UF6P
  - IXW8UF6P
  - IXW43UF6P

- Twelve 6-LED DUO lamps, upper front two piece unit, individual driver and passenger side units
  - IXW37UFX
  - IXW13UFX
  - IXW5UFX
  - IXW42UFX
  - IXW34UFX
  - IXW9UFX
  - IXW8UFX
  - IXW43UFX

REAR FACING LOWER, LOW PROFILE 6 or 8 Linear-LED Modules (shown in Green)

- Six lamp programmable for warning or Traffic Advisor
  - I06LRL6L
  - I06LRL6L

- Eight lamp programmable for warning or Traffic Advisor
  - I06LRL8L
  - I06LRL8L

- Six lamp Traffic Advisor with two end flashers (8 lamps total)
  - I06LRL8LT
  - I06LRL8LT

REAR FACING LOWER, LOW PROFILE LINZ6 LINEAR-LED 6-LED, (shown in Red)

- Eight lamp programmable for warning or Traffic Advisor
  - IZ37LR8
  - IZ35LR8
  - IZ38LR8

- Six lamp Traffic Advisor with two end flashers (8 lamps total)
  - IZ37LR6
  - IZ35LR6
  - IZ38LR6

- Ten lamp programmable for warning or eight lamp Traffic Advisor
  - IZ37LRZ
  - IZ35LRZ
  - IZ38LRZ

- Six lamp Traffic Advisor with four end flashers (10 lamps total)
  - IZ37LRZ6
  - IZ35LRZ6
  - IZ38LRZ6

- Eight lamp Traffic Advisor with two end flashers (10 lamps total)
  - IZ37LRZ8
  - IZ35LRZ8
  - IZ38LRZ8
### OUTER EDGE® LIGHTBARS

<table>
<thead>
<tr>
<th>Model</th>
<th>Technology</th>
<th>Lightheads ea. Piece</th>
<th>Amp Draw (per lighthead)</th>
<th>Vehicle</th>
<th>Housing</th>
<th>FPM</th>
</tr>
</thead>
<tbody>
<tr>
<td>OE13UR8</td>
<td>Warning or Traffic Advisor*</td>
<td>8 LINZ6™ lamps</td>
<td>.75 / peak .35 / average</td>
<td>2008-2012 Chevy Tahoe/Suburban</td>
<td>horizontal mount</td>
<td>requires customer supplied switching</td>
</tr>
<tr>
<td>OE13UR8T</td>
<td>Traffic Advisor</td>
<td>8 LINZ6 lamps (6 lamp TA with 2 end flashers)</td>
<td>.75 / peak .35 / average</td>
<td>2010-2012 Chevy Tahoe</td>
<td>pillar mount</td>
<td></td>
</tr>
<tr>
<td>RP13**</td>
<td>Warning</td>
<td>6 LINZ6 lamps, 2 Vertex™</td>
<td>.75 / peak .35 / average</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### MINI LIGHTBAR SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model</th>
<th>Technology</th>
<th>Mount</th>
<th>Light Source</th>
<th>Amp Draw</th>
<th>FPM/Patterns</th>
<th>VDC</th>
<th>Base</th>
<th>Dome/Lens</th>
</tr>
</thead>
<tbody>
<tr>
<td>RESPONDER® HD</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>R10HDP*</td>
<td>Super-LED®</td>
<td>permanent</td>
<td>LINZ6™ lamps</td>
<td>9.0 peak 3.6 average</td>
<td>46 Scan-Lock flash patterns including 4 simulated rotating patterns ActionScan default</td>
<td>12</td>
<td>aluminum</td>
<td>color outer dome</td>
</tr>
<tr>
<td>R10HDM*</td>
<td>Super-LED®</td>
<td>magnetic</td>
<td>LINZ6™ lamps</td>
<td>9.0 peak 3.6 average</td>
<td>46 Scan-Lock flash patterns including 4 simulated rotating patterns ActionScan default</td>
<td>12</td>
<td>aluminum</td>
<td>color outer dome</td>
</tr>
<tr>
<td>R10HDV*</td>
<td>Super-LED®</td>
<td>magnetic/suction</td>
<td>LINZ6™ lamps</td>
<td>9.0 peak 3.6 average</td>
<td>46 Scan-Lock flash patterns including 4 simulated rotating patterns ActionScan default</td>
<td>12</td>
<td>aluminum</td>
<td>color outer dome</td>
</tr>
</tbody>
</table>

| RESPONDER LP |                       |             |              |          |                    |     |                 |                 |
| R1LPP*       | CON3™ permanent       | magnetic    | LINZ6™ lamps | 7.0 peak 2.4 average | 46 Scan-Lock flash patterns including 4 simulated rotating patterns ActionScan default | 12  | polycarbonate   |                 |
| R1LPM*       | CON3™ permanent       | magnetic    | LINZ6™ lamps | 7.0 peak 2.4 average | 46 Scan-Lock flash patterns including 4 simulated rotating patterns ActionScan default | 12  | polycarbonate   |                 |
| R1LPV*       | CON3™ permanent       | magnetic    | LINZ6™ lamps | 7.0 peak 2.4 average | 46 Scan-Lock flash patterns including 4 simulated rotating patterns ActionScan default | 12  | polycarbonate   |                 |
| R1LPHM*      | CON3™ permanent       | magnetic    | LINZ6™ lamps | 7.0 peak 2.4 average | 46 Scan-Lock flash patterns including 4 simulated rotating patterns ActionScan default | 12  | polycarbonate   |                 |
| R1LPHY*      | CON3™ permanent       | magnetic    | LINZ6™ lamps | 7.0 peak 2.4 average | 46 Scan-Lock flash patterns including 4 simulated rotating patterns ActionScan default | 12  | polycarbonate   |                 |
| R1LPP*       | LINZ6™ Super-LED      | permanent   | LINZ6™ lamps | 7.0 peak 2.4 average | 46 Scan-Lock flash patterns including 4 simulated rotating patterns ActionScan default | 12  | polycarbonate   |                 |
| R1LPM*       | LINZ6™ Super-LED      | magnetic    | LINZ6™ lamps | 7.0 peak 2.4 average | 46 Scan-Lock flash patterns including 4 simulated rotating patterns ActionScan default | 12  | polycarbonate   |                 |
| R1LPV*       | LINZ6™ Super-LED      | magnetic    | LINZ6™ lamps | 7.0 peak 2.4 average | 46 Scan-Lock flash patterns including 4 simulated rotating patterns ActionScan default | 12  | polycarbonate   |                 |
| R1LPHM*      | LINZ6™ Super-LED      | magnetic    | LINZ6™ lamps | 7.0 peak 2.4 average | 46 Scan-Lock flash patterns including 4 simulated rotating patterns ActionScan default | 12  | polycarbonate   |                 |
| R1LPHY*      | LINZ6™ Super-LED      | magnetic    | LINZ6™ lamps | 7.0 peak 2.4 average | 46 Scan-Lock flash patterns including 4 simulated rotating patterns ActionScan default | 12  | polycarbonate   |                 |

| LIBERTY**    |                       |             |              |          |                    |     |                 |                 |
| LT2****P     | Super-LED             | permanent   | 4 Linear-LED modules | 7.0 peak 1.2 average | 14 Scan-Lock flash patterns (permanent mount only) | 12  | extruded aluminum | Clear lenses optional color lenses |
| LT2****M     | Super-LED             | magnetic    | 4 Linear-LED modules | 7.0 peak 1.2 average | 14 Scan-Lock flash patterns (permanent mount only) | 12  | extruded aluminum | Clear lenses |

| FREEDOM™     |                       |             |              |          |                    |     |                 |                 |
| FT8****P     | Super-LED             | permanent   | 4 Dual Linear-LED modules | 7.0 peak 1.2 average | 14 Scan-Lock flash patterns (permanent mount only) | 12  | extruded aluminum | Clear lenses |
| FT8****M     | Super-LED             | magnetic    | 4 Dual Linear-LED modules | 7.0 peak 1.2 average | 14 Scan-Lock flash patterns (permanent mount only) | 12  | extruded aluminum | Clear lenses |
| FT8****F     | Super-LED             | perm/ front facing | 4 Dual Linear-LED modules | 7.0 peak 1.2 average | 14 Scan-Lock flash patterns (permanent mount only) | 12  | extruded aluminum | Clear lenses |

| FREEDOM ROTA-BEAM™ |                       |             |              |          |                    |     |                 |                 |
| FB8****OP     | Super-LED             | permanent   | 2 LED Rotators | 7.0 peak 1.2 average | 14 Scan-Lock flash patterns (Per Rotator) | 12  | extruded aluminum | Clear lenses |
| FB8****P      | Super-LED             | permanent   | 4 LED Rotators | 7.0 peak 1.2 average | 14 Scan-Lock flash patterns (Per Rotator) | 12  | extruded aluminum | Clear lenses |

| JUSTICE®     |                       |             |              |          |                    |     |                 |                 |
| MJY****P     | Super-LED             | permanent   | 4 Linear-LED modules | 7.0 peak 1.2 average | 14 Scan-Lock flash patterns (Per Rotator) | 12  | polycarbonate on extruded aluminum | Clear lenses |
| MJY****M     | Super-LED             | magnetic    | 4 Linear-LED modules | 7.0 peak 1.2 average | 14 Scan-Lock flash patterns (Per Rotator) | 12  | polycarbonate on extruded aluminum | Clear lenses |
| MJY****V     | Super-LED             | magnetic    | 4 Linear-LED modules | 7.0 peak 1.2 average | 14 Scan-Lock flash patterns (Per Rotator) | 12  | polycarbonate on extruded aluminum | Clear lenses |
## Siren Amplifiers & Control Heads

<table>
<thead>
<tr>
<th>Model</th>
<th>Total Current Draw (amps)</th>
<th>Output Power (watts)</th>
<th>Siren Control</th>
<th>Diagnostic</th>
<th>Tones</th>
<th>Microphone</th>
<th>Description</th>
<th>Dimensions in Inches</th>
</tr>
</thead>
<tbody>
<tr>
<td>CANWC1</td>
<td>8@100w / 16@200w</td>
<td>100/200</td>
<td>program-</td>
<td></td>
<td>50</td>
<td>removable</td>
<td>see page 13 for control head choices</td>
<td>Amplifier: 3-1/8&quot; (79mm) H x 7&quot; (194mm) D x 9-1/2&quot; (241mm) L.</td>
</tr>
<tr>
<td>CCSRN</td>
<td></td>
<td></td>
<td>program-</td>
<td></td>
<td>16</td>
<td></td>
<td>see page 14 for control head choices</td>
<td>Amplifier: 3&quot; (76mm) H x 6-3/4&quot; (171mm) D x 8-1/4&quot; (210mm) L.</td>
</tr>
<tr>
<td>295SDA1</td>
<td>8-1 speaker 16-2 speakers</td>
<td>1 or 2, 100 watt</td>
<td>no</td>
<td></td>
<td>20</td>
<td>hard-wired</td>
<td>dual-toned remote siren and power controller</td>
<td>Controller: 3-1/2&quot; (89mm) H x 6-7/8&quot; (175mm) W x 1-1/4&quot; (32mm) D.</td>
</tr>
<tr>
<td>295SSL100</td>
<td></td>
<td></td>
<td>Scan-Lock**</td>
<td></td>
<td>17</td>
<td>removable</td>
<td>economical, full function</td>
<td>2-1/2&quot; (64mm) H x 6&quot; (152mm) W x 5-1/2&quot; (138mm) D.</td>
</tr>
<tr>
<td>295SSL101</td>
<td></td>
<td></td>
<td>Scan-Lock**</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>295SLSA1</td>
<td></td>
<td></td>
<td>Hands-Free</td>
<td></td>
<td>5</td>
<td>hard-wired</td>
<td></td>
<td></td>
</tr>
<tr>
<td>295HFS2</td>
<td></td>
<td></td>
<td>Hands-Free</td>
<td></td>
<td>4</td>
<td></td>
<td>full function, flush mount with remote amp.</td>
<td>(Control Head) 2-7/8&quot; (73mm) H x 6-1/4&quot; (159mm) W x 2-3/8&quot; (60mm) D.</td>
</tr>
<tr>
<td>295HFS2X</td>
<td></td>
<td></td>
<td>Hands-Free</td>
<td></td>
<td></td>
<td></td>
<td>full function, flush mount with remote amp., dual amplifiers, California Title XIII</td>
<td>(Siren) 2-3/8&quot; (60mm) H x 6&quot; (152mm) W x 7&quot; (178mm) D.</td>
</tr>
<tr>
<td>295HFS3</td>
<td>8@100w / 16@200w</td>
<td>100/200</td>
<td>Hands-Free</td>
<td></td>
<td>5</td>
<td>hard-wired</td>
<td>full function, surface mount with remote amp.</td>
<td>(Control Head) 2-3/8&quot; (60mm) H x 6&quot; (152mm) W x 7&quot; (178mm) D.</td>
</tr>
<tr>
<td>295HFS4</td>
<td></td>
<td></td>
<td>yes</td>
<td></td>
<td></td>
<td></td>
<td>self-contained, full function, time out relay, 9 low current switching</td>
<td>(Siren) 2-3/8&quot; (60mm) H x 6&quot; (152mm) W x 7&quot; (178mm) D.</td>
</tr>
<tr>
<td>295HFS5</td>
<td></td>
<td></td>
<td>Scan-Lock**</td>
<td></td>
<td></td>
<td></td>
<td>self-contained, full function, park kill</td>
<td>3-5/16&quot; (84mm) H x 6&quot; (152mm) W x 8-3/8&quot; (213mm) D.</td>
</tr>
<tr>
<td>295HFS6</td>
<td></td>
<td></td>
<td>Scan-Lock**</td>
<td></td>
<td></td>
<td></td>
<td>self-contained, full function, park kill</td>
<td>3-5/16&quot; (84mm) H x 6&quot; (152mm) W x 7&quot; (178mm) D.</td>
</tr>
<tr>
<td>295HFS7</td>
<td>7.8@100w / 15.6@200w</td>
<td>1 or 2</td>
<td>program-</td>
<td></td>
<td>12</td>
<td>removable</td>
<td>flush mount, with dual remote siren amp.</td>
<td>(Control Head) 2-1/2&quot; (64mm) H x 6-7/8&quot; (175mm) W x 2-3/8&quot; (70mm) D.</td>
</tr>
<tr>
<td>295HFS9</td>
<td></td>
<td></td>
<td>program-</td>
<td></td>
<td></td>
<td></td>
<td>self-contained, full function, dual siren</td>
<td>2-1/4&quot; (57mm) H x 6&quot; (152mm) W x 7&quot; (177mm) D.</td>
</tr>
<tr>
<td>PAH112</td>
<td>8</td>
<td>100</td>
<td>-</td>
<td></td>
<td>1</td>
<td>-</td>
<td>airhorn tone only</td>
<td>2-1/2&quot; (64mm) H x 5-7/8&quot; (149mm) W x 6-3/4&quot; (171mm) D.</td>
</tr>
<tr>
<td>PAP112</td>
<td></td>
<td></td>
<td>-</td>
<td></td>
<td></td>
<td></td>
<td>hard-wired airhorn tone with public address</td>
<td>2-1/2&quot; (64mm) H x 6&quot; (152mm) W x 4-5/8&quot; (117mm) D.</td>
</tr>
<tr>
<td>ALPHA12S</td>
<td>200</td>
<td></td>
<td>Hands-Free</td>
<td></td>
<td>4</td>
<td>-</td>
<td>self-contained with switches</td>
<td>2-1/2&quot; (64mm) H x 5&quot; (152mm) W x 4-5/8&quot; (117mm) D.</td>
</tr>
<tr>
<td>ALPHAASL</td>
<td></td>
<td></td>
<td>program-</td>
<td></td>
<td></td>
<td></td>
<td>remote siren amp., optional switches</td>
<td>2-1/4&quot; (54mm) H x 5&quot; (127mm) W x 4-3/4&quot; (120mm) D.</td>
</tr>
<tr>
<td>BETAIL2R</td>
<td>100</td>
<td></td>
<td>Hands-Free</td>
<td></td>
<td>5</td>
<td>hard-wired</td>
<td>control head for BETAIL2R amplifier</td>
<td>2&quot; (51mm) H x 4-1/2&quot; (114mm) W x 5-1/2&quot; (140mm) D.</td>
</tr>
<tr>
<td>BETA1</td>
<td>n/a</td>
<td></td>
<td>Hands-Free</td>
<td></td>
<td></td>
<td>removable</td>
<td>fully encapsulated control head for BETAIL2R amplifier</td>
<td>1-3/4&quot; (44mm) H x 4-1/4&quot; (108mm) W x 2&quot; (51mm) D.</td>
</tr>
<tr>
<td>BETA2</td>
<td></td>
<td></td>
<td>program-</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HHS2200</td>
<td>8-1 speaker 16-2 speakers</td>
<td>1 or 2, 100 watt</td>
<td>program-</td>
<td></td>
<td>37</td>
<td>built-in</td>
<td>hand held controller with built-in microphone, full function, 12 push-buttons</td>
<td>(Control Head) 5-5/16&quot; (135mm) H x 2-1/4&quot; (57mm) W x 1-1/8&quot; (28mm) D.</td>
</tr>
<tr>
<td>EPSL1</td>
<td>8 @ 100w</td>
<td>100</td>
<td>program-</td>
<td></td>
<td></td>
<td></td>
<td>full function, California Title XIII tones</td>
<td>2-1/4&quot; (57mm) H x 5-7/8&quot; (149mm) W x 5-3/4&quot; (146mm) D.</td>
</tr>
<tr>
<td>EPSL2S6</td>
<td>8 @ 100w</td>
<td>16 @ 200w</td>
<td>-</td>
<td></td>
<td></td>
<td></td>
<td>similar to EPSL1, six toggle on/off switch outlets</td>
<td>3-1/4&quot; (83mm) H x 6&quot; (151mm) W x 5-5/8&quot; (133mm) D.</td>
</tr>
<tr>
<td>EPSL2SA9</td>
<td>8 @ 100w</td>
<td></td>
<td>program-</td>
<td></td>
<td></td>
<td></td>
<td>similar to EPSL1, 6 toggle on/off switches plus 4 position slide switch</td>
<td></td>
</tr>
<tr>
<td>GAMMA2</td>
<td>8</td>
<td>100</td>
<td>Hands-Free</td>
<td>yes</td>
<td>9</td>
<td>hard-wired</td>
<td>economical self contained, two auxiliary switches, SAE Class A, California Title XIII</td>
<td>2-1/4&quot; (57mm) H x 5-3/8&quot; (137mm) W x 4-1/4&quot; (109mm) D.</td>
</tr>
</tbody>
</table>
At Whelen Engineering, our goal is to bring innovative, life saving products to market more quickly while maintaining strict quality control throughout the process. We have accomplished this through a vertical manufacturing initiative to eliminate or reduce out-sourcing; the use of robotics and state-of-the-art production equipment; and, perhaps most importantly, a motivated workforce of over 1100 employees. This allows us to meet and adapt to our customer's changing needs in the shortest amount of time.

- Two manufacturing facilities totaling over 586,000 square feet.
- Largest staff of Design Engineers in the industry.
- Research and development.
- Partnering with OEMs on new vehicle design and product integration.
- Plastics injection molding machines from 30 to 2000 tons capacity.
- In-house plastics, hard coating, metallizing, and sheet metal fabrication.
- On-site test lab for environmental dust, moisture, vibration, etc, acoustic anechoic sound chamber, industry certifications (SAE, AMECA, FAA to name a few).
- Sales and Technical Personnel are trained at the factory training center and return for updates on a regular schedule.
- Worldwide network of Sales, Service and Training.

Where it all began......
It All Started 1952 in a Garage with the First Rotating Beacon.

A privately owned company, Whelen has experienced positive growth for over 60 years. The pride and commitment of its work force, whose employment longevity averages over 22 years, is rewarded through a profit sharing plan established by the Whelen family since the company was founded.

The development of the first aviation light helped launch Whelen into the automotive safety lighting industry as well. Whelen currently provides safety lighting for Police, Fire, EMS, and DOT professionals as well as many other industries. The production volumes seen in the automotive sector have allowed Whelen to invest in the latest automated assembly equipment in order to compete world-wide. Last year Whelen purchased over 44 million LEDs for use in their extensive family of products. And, the aviation division capitalizes on this state-of-the-art manufacturing and buying power, even with their typically low volume production runs. In the 1970s Whelen introduced the Outdoor Warning Siren ... totally electronic and capable of not just warning tones but also high-powered voice messages. The Mass Notification Division has saved lives around the world.

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3-D Product Design  
Whelen’s Professional Design Engineers

**DESIGN & ENGINEERING**

The largest staff of Design Engineers in the industry! Many of our Engineers are Fire Volunteers and EMTs so they know firsthand the critical need for life saving, innovative products.

**INJECTION AND VACUUM MOLDING**

1600 molds, 38 molding machines from 30 to 2000 tons, 20 million parts produced every year. Vacuum machines produce irregularly shaped components not suitable for injection molding.

**ELECTRONICS MANUFACTURING**

Surface mount and through-hole circuit boards are manufactured, assembled and tested In-circuit.

American employees, American manufacturing, American pride!
Robotic and laser cutting and drilling, Robotic Bending Cells for stand-alone operation. All machine parts are produced and maintained by automated production machine shops in New Hampshire and Connecticut.

**Fabrication**

Five-Axis Laser Cutting Center 4 Laser Cut Punch & Tapping Centers 8 Metal Forming Machines

Transformer Manufacturing 8 Wire Cutting, Stripping & Terminals Machines

Inventory Automatic Kit Bagging

**Finishing Processes**

Hard coating of lenses and powder coating housings make them resistant to weather and abrasion. Metallizing reflectors add reflectivity and helps prevent corrosion and oxidation.

Powder Coating Moisture Proof Coatings Silicone Hard Coating 5 Vacuum Metalizing Reflector Machines

**Production Machine Shop**

The production machine shop uses state-of-the-art milling machines, CNC lathes and screw machines to make the precision parts required for our products.

2 High Speed Screw Machines Robotic Five-Axis 48 Pallet Milling Center 15 Milling and Turning Centers

American employees, American manufacturing, American pride!
Quality Control and Testing

Quality Control is maintained throughout the manufacturing process. Certified test labs on site facilitate product development and shorten lead times.

EMI  RF  Corrosion  Atmospheric
Rain  Vibration  Dust  Environmental
Photometric Chamber  Acoustic Chambers  Quality Control & Reliability Testing

Repair, Service and Training

Whelen’s Repair Goal is to get product repaired and back out the door to you within 24 hours. Authorized Service facilities are located around the globe. Training is available not only at the Chester Training Facility but at sites around the country. All Whelen Authorized Managing Sales Representatives and technicians return to the plant several times a year for new product introduction and advanced training.

Repair Service Technician  Electronics Technician  Technical Support  Chester Corporate Training Facility

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