

NOW available with  
4 extra high intensity LED  
corner modules PLUS DUO™  
technology modules and  
Traffic Advisor™

# WHELEN®

## LFL LIBERTY™

Linear-LED® LIGHTBARS



Form# LIB1209

#1  
**WHELEN®**  
In Strobe & LED Technology

# WHELEN®

# LFL LIBERTY™ SERIES

*With Liberty lightbars you have all the super performance, high reliability features needed to give you maximum, heads up warning in an extreme low profile all Linear lightbar that's almost undetectable on the highways. These lightbars are made for the rough treatment and long hours that your job demands. From the extruded aluminum chassis on up, every component is designed and field-tested for performance under just those conditions. Now with new models with the latest DUO technology, its like having multiple lightbars in one!*

## LIBERTY FEATURES

- An all Linear-LED lightbar featuring ultra bright, ultra wide-angle Super-LED technology providing heavy-duty long life operation (LED modules are rated 100,000 hours) with low current draw.
- Choose from the standard corner Linear Super-LED® modules or the **NEW** extra high intensity corner modules.
- Build your lightbar in any color combination with take-downs and LED modules in any position you want.
- Choose the Linear Super-LED corner you want, then add up to 12 Linear Super-LED directional modules in pairs, for a total of 16 modules, at any time in the future at the distributor or end user level.
- Brighter extended corner modules expand visibility with more light at critical 45° and 90° angles.
- Full 360 degree coverage, SAE J845 Class 1 Certified in red, blue and amber colors.
- Sleek, aerodynamic design with state-of-the-art optics built on an extruded aluminum chassis providing shock protection, strength and stability without warping or sagging.
- Each Super-LED lighthouse is driven by an all electronic module that provides proper input power and choice of flash patterns.
- Optional brake/tail/turn lights and Traffic Advisors™ are available for additional warning.
- **NEW** LR11 Super-LED alley, take-down and work lights with 15° horizontal adjustment.
- Optional Traffic Advisor available in five/six lamp Linear-LED modules or **NEW** DUO™ technology modules for combination Traffic Advisor and warning capability in a single lighthouse.
- Available adjustable mount foot allows the lightbar to be mounted parallel to the street surface, no matter the shape of the vehicle roof.
- Available Cruise Light function, low intensity steady-burn lighting, for identification and visibility of police vehicles during routine patrol.
- Optional Solar panel compensates for parasitic draw from the vehicle's computer, improves battery efficiency and extends battery life.
- **NEW** Photocell option for Hi/Low power.
- Clear outer lenses are standard, optional color lenses are available.
- 5 year HDP® (Heavy-Duty Professional) warranty.
- Size: 2-1/2" (64mm) H x 12" (304mm) W x 43-1/8" (109cm), 48-1/2" (123cm), 53-7/8" (137cm) L.



## **NEW!** DUO™ Technology Modules

Shown in amber Traffic Advisor mode  
and in red/blue warning mode **in the same lightbar!**

## Low Current Switching **SCANLOCK** Series

- **NEW** SY and SZ models allow for optional DUO color inboard modules to front or rear of lightbar or a DUO color Traffic Advisor. Each module contains two sets of different color LEDs, allowing for true dual color modules without giving up light intensity.
- Standard SX and SP models with extended or extra high intensity extended Super-LED corner modules.
- SLN Series meets NFPA 1901 Lighting Standards. Certified to SAE requirements and specifications. Two 54" models available. Contact factory for more information.
- Each Super-LED lighthouse is driven by a single 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.
- Low Current "LC" operation uses a small diameter external cable harness for operation with standard or low current switch controls or micro switches.
- Optional five or six LED Traffic Advisor with ultra high intensity Linear-LED modules or five or six split Traffic Advisor with passenger side warning alternates with driver side warning.
- Pre-wired with 15' passenger side cable exit, optional driver side cable exit.
- Customer installed upgrade kits available to convert SL versions to SX models are available.

## **SCANLOCK**

(PATENTED)

At any time easily scan through 21 flash patterns and lock in the one you want.

- CometFlash® 150 - Alternating
- CometFlash 150 - Simultaneous
- CometFlash 150 - California
- DoubleFlash 240 - Alternating
- DoubleFlash 240 - Simultaneous
- DoubleFlash 120 - Alternating
- DoubleFlash 120 - Simultaneous
- SingleFlash 375 - Alternating
- SingleFlash 375 - Simultaneous
- SingleFlash 150 - Alternating
- SingleFlash 150 - Simultaneous
- SingleFlash 75 - Alternating
- SingleFlash 75 - Simultaneous
- SignalAlert™ 150 - Alternating
- SignalAlert 150 - Simultaneous
- ActionFlash™ - Alternating
- ActionFlash - Alt. / Sim.
- ActionFlash - Simultaneous
- ModuFlash™ - Alternating
- ModuFlash - Simultaneous
- ActionScan™



Liberty lightbars turned off have the stealth look, while when turned on provide a very bright directional warning signal.



# LIGHTBARS

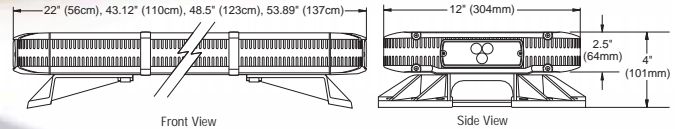


The only Patented Linear-LED Module on the Market Today!

Proud to be an American! The LFL Liberty lightbar, is proudly designed, manufactured and assembled in America.



### Dimensions



## Programmable SW & SR Lightbar Series



Optional WeCAN Controller WCC9

Similar to the SX/SP Series but 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 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.

- SW Series with extended Super-LED® corner modules.
- SR Series with extra high intensity extended Super-LED corner modules.
- Small cable allows for easier overall wiring and lightbar installation.
- **NEW** DUO™ technology modules for combination Traffic Advisor™ and warning capability in a single lighthead.
- Up to eighteen different programmed warning configurations can be operated via customer supplied switching to each of only eighteen 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", as well as, flash pattern control of each lighthead.
  - Phase control of each lighthead, with four phases that allow for alternating, simultaneous & combo flash patterns.
  - Cruise light control with multiple 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). Now available as a Photocell Hi/Low option.
  - Independent (sequential) or 2-wire control of the traffic arrow functions (left, right, split, and does not require a Traffic Advisor control head).
- **NEW** optional WCC9 (substituted for the ECM), a 6 push button and 4 position slide switch control head available with 10 pre-programmed lightbar configurations accessible via dip switches located on the rear of the unit.

**NEW DUO Technology** has different color LEDs in the same module allowing one lightbar to flash different colors and different flash patterns all in the same lightbar! The chart below shows which series models are available with DUO Technology.

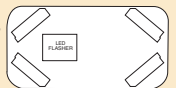


Series	WeCan	Low Current	Corner Module	Single Color	DUO Corners	DUO Inboards	DUO TA
<b>NEW</b> SW	Yes	—	standard extended	Yes	—	—	Yes
SR	Yes	—	extra high intensity	Yes	—	—	Yes
<b>NEW</b> SY	—	Yes	standard extended	Yes	—	Yes	Yes
<b>NEW</b> SZ	—	Yes	extra high intensity	Yes	Yes	Yes	Yes
SX	—	Yes	standard extended	Yes	—	—	—
<b>NEW</b> SP	—	Yes	extra high intensity	Yes	—	—	—

## Liberty™ Mini Lightbar Series

### LT Series 22" Long & state-of-the-art optics.

- Four Linear Super-LED modules and LED flasher.
- Available in magnetic or permanent mount.
- Permanent mount with 15' passenger side cable and optional halogen take-down, and/or two halogen alley lights.



### Options

- Two halogen alley lights (LT2\*\*\*\*P only)
- One front facing halogen take-down light, for LT2\*\*\*\*P Only

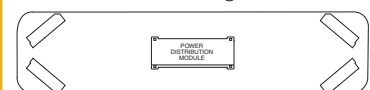


### All LFL Liberty Lightbars Offer Modular Design.

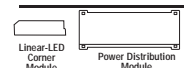
1 End modules slide in channels of the aluminum housing. 2 All inboard warning lighthead modules are easy to access and are the same size and can be placed anywhere in the lightbar. 3 Modules snap-in for a tight secure fit. 4 Connectors snap together for easy lighthead replacement or additions.



### Standard Configuration



### LEGEND



# LFL LIBERTY™ LIGHTBAR OPTIONS

To help you build your LFL Liberty Lightbar, Whelen "WeCad™" build-a-bar program is available on our website at:

www.whelen.com

Options	WeCan Models						Low Current Models											
	SR4***	SR8***	SR2***	SW4***	SW8***	SW2***	SY4***	SY8***	SY2***	SZ4***	SZ8***	SZ2***	SP4***	SP8***	SP2***	SX4***	SX8***	SX2***
<b>OPTIONS FOR LFL LIBERTY FULL SIZE LIGHTBARS</b>																		
Two inboard Super-LED® directional lightheads	SLD**	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<b>NEW!</b> One DUO™ Color inboard Super-LED directional lighthead	SLZ#	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Two super high intensity LED take-down lights	SXTDLED	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Two super high intensity LED work lights	SKWLLED	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<b>NEW!</b> Two LR11 Super-LED flashing alley lights, 15° horizontal adjustment, for Liberty WeCan Series without screw holes in the top	SRALF1	✓	✓	✓	✓	✓	-	-	-	-	-	-	-	-	-	-	-	-
<b>NEW!</b> Two LR11 Super-LED flashing alley lights, 15° horizontal adjustment, for Liberty LC Series without screw holes in the top	SPALF1	-	-	-	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<b>NEW!</b> Two LR11 Super-LED flashing take-down lights, 15° horizontal adjustment	SXTLS1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<b>NEW!</b> Two dual LR11 Super-LED flashing take-down lights, 15° horizontal adjustment	SXTLS1D	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<b>NEW!</b> Two LR11 Super-LED flashing take-down lights, 15° horizontal adjustment and one Linear-LED, amber, blue or red, center option only, clear outer lens	SXTLS1M*	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Two LED brake/tail/turn lights	SWBTLED	✓	✓	✓	✓	✓	-	-	-	-	-	-	-	-	-	-	-	-
Five Linear-LED Traffic Advisor™, requires no special control head	SLTALN5L	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Six Linear-LED Traffic Advisor, requires no special control head	SLTALN6L	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Five Linear Super-LED Traffic Advisor, includes control head	SLTALN5	-	-	-	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Six Linear Super-LED Traffic Advisor, includes control head	SLTALN6	-	-	-	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Five Linear Super-LED split Traffic Advisor, requires no special control head, 5 max.	SWW\$\$\$00	✓	✓	✓	✓	✓	-	-	-	-	-	-	-	-	-	-	-	-
Six Linear Super-LED Split Traffic Advisor, requires no special control head, 6 maximum	SWX\$\$\$00	✓	✓	✓	✓	✓	-	-	-	-	-	-	-	-	-	-	-	-
Five Linear Super-LED split Traffic Advisor, requires no special control head, 5 max. driver side warning lights alternates with pass. side warning lights, no individual control of rear inboard warning	SLW\$\$\$00	-	-	-	-	-	-	-	-	-	-	-	✓	✓	✓	✓	✓	✓
Six linear Super-LED split Traffic Advisor, requires no special control head, 6 maximum driver side warning lights alternates with pass. side warning lights, no individual control of rear inboard warning	SLX\$\$\$00	-	-	-	-	-	-	-	-	-	-	-	✓	✓	✓	✓	✓	✓
Five Linear Super-LED split Traffic Advisor, includes control head, 5 maximum	SLY\$\$\$00	-	-	-	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Six Linear Super-LED split Traffic Advisor, includes control head, 6 maximum	SLZ\$\$\$00	-	-	-	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<b>NEW!</b> Five DUO color Linear Super-LED Traffic Advisor, requires no special control head, 5 maximum	SPW\$\$\$00	-	-	-	-	-	✓	✓	✓	✓	✓	✓	-	-	-	-	-	-
<b>NEW!</b> Six DUO color Linear Super-LED Traffic Advisor, requires no special control head, 6 maximum	SPX\$\$\$00	-	-	-	-	-	✓	✓	✓	✓	✓	✓	-	-	-	-	-	-
<b>NEW!</b> Five DUO color Linear Super-LED Traffic Advisor, requires no special control head, 5 maximum	SPY\$\$\$00	✓	✓	✓	✓	✓	-	-	-	-	-	-	-	-	-	-	-	-
<b>NEW!</b> Six DUO color Linear Super-LED Traffic Advisor, requires no special control head, 6 maximum	SPZ\$\$\$00	✓	✓	✓	✓	✓	-	-	-	-	-	-	-	-	-	-	-	-
Delete TACTALD1 from 6-8 Light LED Traffic Advisor	DELTALD1	-	-	-	✓	✓	-	-	-	-	-	-	-	-	-	✓	✓	✓
<b>NEW!</b> Substitute WCC9 WeCan controller for WeCan electronic control point module, when purchased with WeCan SW Series lightbars only	WCC9SUB	✓	✓	✓	✓	✓	-	-	-	-	-	-	-	-	-	-	-	-
Criss/cross flash pattern of end Linear-LEDs	SLXXPAT	-	-	-	-	-	-	-	-	-	-	✓	✓	✓	✓	✓	✓	✓
GTT Self-Contained LED IR Opticom™ Emitter	795H	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Self-Contained LED IR Opticom Emitter, SX795H installation (pre-wired) of 795H in a Liberty Series lightbar, no charge when purchased with 795H	795H GTT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Installation (pre-wired) of 795H in a Liberty Series lightbar, no charge when purchased with 795H	SX795H	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Two LR11 Super-LED flashing take-down lights and installation (pre-wired) of 795H (795H purchased sep.), center mount option only when purchased with Liberty lightbars	SX795HLR	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Two LR11 Super-LED flashing lights (red/blue and/or amber) and installation of 795H (795H purchased sep.), center mount option only, when purchased with Liberty lightbars	SX795L**	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Driver side cable exit, 20' power cable & control cable, for SW Series only	SWDSCBL	✓	✓	✓	✓	✓	-	-	-	-	-	-	-	-	-	-	-	-
Quick disconnect plug for WeCan® lightbars only	WCDPLUG	✓	✓	✓	✓	✓	-	-	-	-	-	-	-	-	-	-	-	-
<b>NEW!</b> Photo Cell option for Hi/Low power	SLPHOTO	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Solar panel for Low Current lightbars with passenger side cable exit	SOLARPNL	-	-	-	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Solar panel for WeCan lightbars with passenger side cable exit	SOLARPWC	✓	✓	✓	✓	✓	-	-	-	-	-	-	-	-	-	-	-	-
Bulk package of 18 Liberty Series lightbars, <b>not individually boxed</b>	SXBULK18	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

The selection of one option may preclude the selection of another option. See the latest price list for complete listing and descriptions of models & options. † For SLN Series NFPA lightbar options, contact factory.

**LEGEND:**

\* = Replace \* in model number with lens color desired: A=Amber; B=Blue; C=Clear; G=Green; R=Red  
 \$ = Replace symbols with number of colored LED lightheads required (maximum 12 modules).  
 Order of colors in Model Number are Red, Blue, Amber and White. Use X=12, Y=11 & Z=10.  
 i.e. SLD2222 = 2 Red, 2 Blue, 2 Amber & 2 White, SLD0Z020 = 0 Red, 10 Blue, 0 Amber & 2 White.



**WHELEN**  
ENGINEERING COMPANY, INC.  
51 Winthrop Road, Chester, CT 06412-0684  
860-526-9504 • Fax 860-526-4078  
www.whelen.com

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