



EDGE[®] ULTRA FREEDOM[™]

Super-LED[®] SERIES LIGHTBARS

Officially Licensed
Warning Lights of
NASCAR[®]



The Only
Patented
Linear-LED[®] Module
on the Market
Today!



WHELEN® EDGE® ULTRA FREEDOM™

Edge Ultra Freedom all Linear-LED® lightbars feature ultra bright, ultra wide-angle Super-LED® technology. Designed for rough treatment; providing heavy-duty, long life operation with low current draw. Lenses and lamp modules are of equal size so that they can be placed anywhere in the lightbar. Most Whelen lightbars are easily upgraded with Super-LED LR11 LED take-down or alleys for steady-burn or flashing operation, with field-proven reliability. Now you have the “Freedom” to easily build the exact lightbar you’ve been looking for.

All Freedom Lightbars Feature:

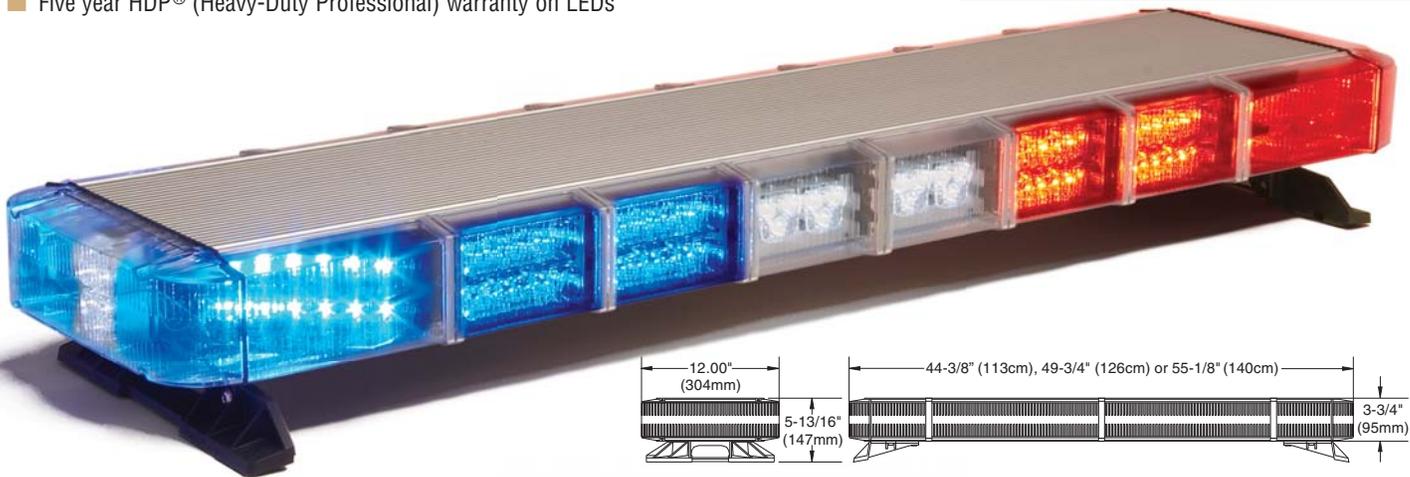
- All models meet or exceed SAE Class 1 and California Title XIII requirements
- Build your lightbar in any color combination with take-downs and LED modules in any position
- Optional flashing and/or steady halogen or LR11 Super-LED take-down or alley lights
- Available adjustable mount foot allows the lightbar to be mounted parallel to the street surface
- Rugged extruded aluminum I-Beam housing and all modular construction
- Four corner Linear Super-LED modules provide full 360 degree coverage
- Four corner Linear Super-LED modules are available in standard or extended lengths
- Add up to twelve wide angle, Linear Super-LED directional modules
- Clear hard-coated polycarbonate outer lenses are standard, optional color lenses
- Optional solar panel compensates for parasitic draw
- 15’ cable, passenger side exit. Driver side cable exit with 25’ power cable optional
- 75 SignalAlert™ flashes per minute, per head (default pattern)
- 70% lower amp draw over comparable strobe models
- Available cruise light function
- Optional built-in LED Traffic Advisors™
- Custom lengths available
- Five year HDP® (Heavy-Duty Professional) warranty on LEDs

Series	WeCan	Low Current	Corner Module	Bi-level Control of lighthoods
FL	—	Yes	Standard	—
FX			Extended	
FV	Yes	—	Standard	
FW			Extended	
FC	—	Yes		Yes

When lighted, comes alive with ultra bright warning impact



New illuminated LR11 Super-LED take-down lights



To help you build your lightbar, Whelen’s “WeCad™” build-a-bar program is available on our website at www.whelen.com

FL, FX & FN Series, Low Current Switching with SCANLOCK

- Choose the standard FL Series with two or four corner Linear Super-LEDs or the FX Series with its four extended corner modules, then add up to twelve optional Linear Super-LED directional modules.
- Scan-Lock™ flash pattern control lets you toggle through the multiple flash patterns and lock in the pattern you select. Every pair of lights can have its own unique pattern. External control cable included.
- Optional single or dual LR11 Super-LED flashing take-downs and flashing alley lights with 15° horizontal adjustment plus optional five or six ultra high intensity Linear Super-LED Traffic Advisor.
- Each Super-LED lighthouse is driven by an all electronic module that provides proper input power and choice of flash patterns.
- NFPA Freedom FN lightbars meet NFPA 1901 ZONE “A” UPPER lighting standards. All models include clear outer lens, permanent mount with standard lengths of 55”, 60” and 72”. For available options, contact factory.

FL Series:

- 4 standard corners
- FL4****, 44 inch
- FL8****, 50 inch
- FL2****, 55 inch

FL Series:

- 2 standard front corners
- FL4**00, 44 inch
- FL8**00, 50 inch
- FL2**00, 55 inch

FX Series:

- 4 extended corners
- FX4****, 44 inch
- FX8****, 50 inch
- FX2****, 55 inch

FN Series:

- 2 Red corners, 4 front Linears (2 Red/2 White)
- FN55VLED, 55 inch
- FN60VLED, 60 inch
- FN72VLED, 72 inch

FN Series:

- 2 Red front corners, 4 front Linears (2 Red/2 White) & 2 Red end Linears, square ends
- FN55QLED, 55 inch
- FN60QLED, 60 inch
- FN72QLED, 72 inch

* Replace symbol (*) in color code on all models with color desired:
A=Amber; B=Blue; C=Clear; G=Green; R=Red

LIGHTBARS



FV & FW Series **WE CAN** Programmable Lightbars

WeCan programmable lightbars are similar to the FL & FX Series but include an external interface unit, the WeCan electronic control module (ECM), which controls all lightbar operating functions by a 2 conductor, 20 gauge cable. All functions are programmed 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. Optional WeCan WCC9 Controller 10 dip switch selectable switching configuration.



- Choose the "FV" standard 4 corner Linear Super-LED® with 400 Series or single or dual LR11 alley light options or the "FW" extended corner module with single or dual LR11 alley light option
- Small cable allows for easier overall wiring and lightbar installation
- Up to eighteen different programmed warning configurations can be operated via customer supplied switching to each of 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/Off and flashing pattern control of each lighthouse
 - Phase control of each lighthouse with four phases allows for alternating, simultaneous and combo flash patterns
 - Cruise light control with almost unlimited adjustable intensity levels
 - Independent Hi/Low control is available to any one or more Super-LED® lighthouses, 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 switch located on the rear of the unit

"No one can control your lightbar like"



- | | |
|-------------------------|-------------------------|
| FV Series: | FW Series: |
| 4 standard corners | 4 extended corners |
| FV4*** , 44 inch | FW4*** , 44 inch |
| FV8*** , 50 inch | FW8*** , 50 inch |
| FV2*** , 55 inch | FW2*** , 55 inch |

Freedom II™ FC Series **WE CAN** Programmable Lightbars

All the great features of the FW Series lightbars with extended corner modules, plus independent control of upper and lower levels of each split color or solid color lighthouse for virtually two lightbars in one.



Replace symbol (#) in color code on all models with lens color desired: A=Amber; B=Blue; C=Clear; G=Green; R=Red or with letter indicating SPLIT lens or LED color desired: D=Red/Clear; E=Blue/Clear; F=Amber/Clear; H=Green/Clear J=Red/Blue; K=Red/Amber; L=Red/Green; M=Blue/Amber; P=Green/Amber

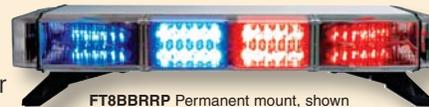


- FC Series:**
- FC4####**, 44 inch
 - FC8####**, 50 inch
 - FC2####**, 55 inch

Mini Freedom FT & FN Series Lightbars

At only 28-1/4" long with four Super-LED modules and low current draw, the Mini Freedom Series provides excellent performance in a proven Edge extruded aluminum I-Beam chassis lightbar design.

- Blue, Red, Amber and/or White Super-LEDs
- Easy access to internal components utilizing snap in brackets. Components change easily using only a screwdriver
- A maximum of four Linear-LED® modules fit in the magnet and permanent mount models, two halogen lamps fit in the permanent mount models
- Optional take-downs and alley lights, and two or four Super-LED flashing modules
- Permanent mount models with 15' passenger side cable
- 2.5 amps @13.6 VDC
- Size: 3-3/4" (95mm) H x 28-1/4" (717mm) W x 12" (304mm) D.



FT8BRRP Permanent mount, shown with optional FTDBR inboard LEDs



FT8AAAAM Magnetic mount with cigar plug, shown with optional FTDAAM inboard LEDs



- | | |
|--|---|
| FT Series: | FN Series: |
| FT8***P , Permanent mount | FNMINI , Two 24" Mini Freedoms each with 2 front Red corners, one White front Linear and one Red end Linear. Sold in pairs only. |
| FT8***M , Magnetic mount | |
| FT8***F , Permanent mount, front facing | |

* Replace symbol (*) in color code on all models with lens color desired: A=Amber; B=Blue; C=Clear; G=Green; R=Red

The use of any magnetic or magnetic/suction mounted warning beacon on the outside of a moving vehicle is not recommended and is at the sole risk of the user.

Mini Options	FT8***P	FT8***M	FT8***F
Two halogen take-down lights, not for use with FTALY	FTTD2	✓	✓
Two halogen alley lights, not for use with FTTD2	FTALY	✓	✓
Two 400 Series Linear-LED® lighthouses, Blue, Red, Amber and/or White	FTD**	✓	✓
Four 400 Series Linear-LED lighthouses, Blue, Red, Amber and/or White	FTD***	✓	✓

EDGE® ULTRA FREEDOM™ OPTIONS

All the options you need to customize your lightbar. With Edge Ultra Freedom's modular design, you can add options now, and more at a later date.

☐ = Available

OPTION DESCRIPTION	MODEL	WeCan® Series									Scan-Lock™ Series								
		FC4***	FC8***	FC2***	FW4***	FW8***	FW2***	FV4***	FV8***	FV2***	FX4***	FX8***	FX2***	FL4***	FL8***	FL2***	FL4**00	FL8**00	FL2**00
2 Amber, Blue, Red and/or White, inboard directional Super-LED® lightheads	FLD**	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2 (4 duplex) Amber, Blue, Red and/or White split-color combination, inboard Super-LED module, for FC Series only	FLD#	✓	✓	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Two LR11 Super-LED flashing alley lights, with 15° horizontal adjustment	FXALF1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Two dual LR11 Super-LED flashing alley lights, with 15° horizontal adjustment	FXALF1D	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Two LR11 Super-LED flashing take down lights, with 15° horizontal adjustment	FXTLS1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Two dual LR11 Super-LED flashing take-down lights, with 15° horizontal adjustment	FXTLS1D	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Two halogen flashing take-down lights	FLH2CC	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Two halogen flashing alley lights for FL or FV Series only, do not use with FC, FX or FW Series	FLALYC	-	-	-	-	-	-	✓	✓	✓	✓	-	-	✓	✓	✓	✓	✓	✓
Two halogen work lights, do not use with FC Series lightbars	FLWL2	-	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Two LED Brake/Tail/Turn lights for FV or FW Series only, do not use with FC, FL or FX Series	FWBTTLED	-	-	-	✓	✓	✓	✓	✓	✓	✓	-	-	-	-	-	-	-	-
Four LED cruise lights, Amber, Blue, White and/or Red for FL Series only, do not use with FX, FV or FW Series	FLCRUZ**	-	-	-	-	-	-	-	-	-	-	-	-	✓	✓	✓	✓	✓	✓
Five Linear Super-LED Traffic Advisor™, includes control head	FLTALN5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Six Linear Super-LED Traffic Advisor, includes control head	FLTALN6	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Five Linear Super-LED Traffic Advisor, two wire control, uses no special control head	FLTALN5L	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Six Linear Super-LED Traffic Advisor, two wire control, uses no special control head	FLTALN6L	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Five Linear Super-LED, duplex Traffic Advisor requires no special control head, replace symbol "\$" with number of split warning LED colors, order is Red/Blue/Amber, 5 max. for FC Series only	FCW\$\$\$\$	✓	✓	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Six Linear Super-LED Duplex Traffic Advisor, requires no special control head, replace symbol "\$" with number of split warning LED colors, order is Red/Blue/Amber, 6 max. for FC Series only	FCX\$\$\$\$	✓	✓	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Five Linear Super-LED Duplex Traffic Advisor, requires no special control head, replace symbol \$ with number of upper level warning LED colors, order is Red/Blue/Amber, 5 max. for FW & FV Series only	FLW\$\$\$\$	-	-	-	✓	✓	✓	✓	✓	✓	✓	-	-	-	-	-	-	-	-
Six Linear Super-LED Duplex Traffic Advisor, requires no special control head, replace symbol "\$" with number of upper level warning LED Colors, order is Red/Blue/Amber, 6 max. For FW & FV Series only	FLX\$\$\$\$	-	-	-	✓	✓	✓	✓	✓	✓	✓	-	-	-	-	-	-	-	-
Five Linear Super-LED Duplex Traffic Advisor, includes control head, replace symbol \$ with number of upper level warning LED colors, order is Red/Blue/Amber, 5 max.	FLY\$\$\$\$	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Six Linear Super-LED Duplex Traffic Advisor, includes control head, replace symbol \$ with number of upper level warning LED colors, order is Red/Blue/Amber, 6 max.	FLZ\$\$\$\$	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Delete WeCan control point, for use with FC, FW and FV Series only	DELWCCP	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Substitute WCC9 WeCan® controller for WeCan electronic control point module. When purchased with WeCan FC, FW & FV Series lightbars only, (not for use with DUO™ lightbar)	WCC9SUB	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-	-	-	-	-	-	-
Delete TACTALD1 from 6-8 Light LED Traffic Advisor	DELTALD1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Driver side cable exit, includes 25' power and ground cable, for FL or FX Series only	FLDSCBL	-	-	-	-	-	-	-	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓
Driver side cable exit, includes 20' power & ground cable, for FV or FW Series only, do not use on FL or FX Series	FWDSCBL	-	-	-	✓	✓	✓	✓	✓	✓	-	-	-	-	-	-	-	-	-
Driver side cable exit, includes 25' power and ground cable, for FC Series only	FCDSCBL	✓	✓	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Quick Disconnect Plug for WeCan Lightbars only	WCQDPLUG	-	-	-	✓	✓	✓	✓	✓	✓	-	-	-	-	-	-	-	-	-
Custom length up to 82" (insert required length in model # 60", 66", 72", 77", or 82")	9LTH_	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Custom length 88"+ (insert required length in model # 88", 93", or 98")	9LTH_	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Bulk Package of 18 Edge Ultra Freedom Series Lightbars, in place of standard individually boxed lightbars	FLBULK18	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
GTT Self-Contained LED IR Opticom™ Emitter, refer to GTT Opticom Emitters	795H	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Installation (pre-wired) of 795H in Freedom Lightbar, no charge when purchased with 795H, Center mount option only	FX795H	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Two LR11 Super-LED flashing take-down lights and installation (pre-wired) of 795H (795H purchased separately), center mount option only when purchased with Freedom lightbar	FX795HLR	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Two Dual LR11 Super-LED® Flashing Take-Down Lights, with 15° Horizontal Adjustment (For WeCan® Models Only)	FWTLS1D	-	-	-	✓	✓	✓	✓	✓	✓	-	-	-	-	-	-	-	-	-
Two LR11 Super-LED flashing lights (Red/Blue and/or Amber) and installation of 795H (795H purchased separately), center mount option only, when purchased with Freedom Lightbars	FX795L**	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Pioneer™ lightbar mount	PF_#LB#	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Solar panel to reduce parasitic draw. For LC (Low Current) Lightbars with passenger side cable exit	SOLARPNL	-	-	-	-	-	-	-	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓
Solar panel to reduce parasitic draw. For WeCan Lightbars with passenger side cable exit	SOLARPWC	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

* Replace symbol in model number with letter indicating lens color or LED color desired:
A = Amber; **B** = Blue; **C** = Clear/White; **R** = Red; **G** = Green
 # Replace symbol in model number with letter indicating SPLIT lens or LED color desired:
D = Red/Clear; **E** = Blue/Clear; **F** = Amber/Clear; **H** = Green/Clear
J = Red/Blue; **K** = Red/Amber; **L** = Red/Green; **M** = Blue/Amber
 Replace symbol '\$' with number of split warning LED colors, order is Red/Blue/Amber



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