

WHELEN[®]

EDGE[®] ULTRA FREEDOM[™]
Super-LED[®] SERIES LIGHTBARS



Officially Licensed
Warning Lights of
NASCAR[®]



EDGE® ULTRA FREEDOM™

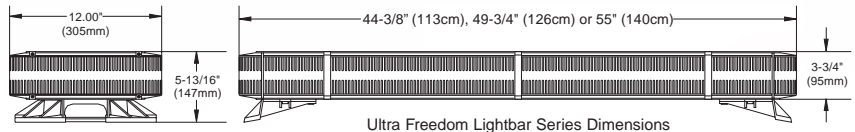
Edge® Ultra Freedom™ all Linear-LED® lightbars feature the next generation of ultra bright, ultra wide-angle Super-LED® technology, in a warning package that rivals strobe in impact. All Ultra lightbars have modular construction for easy maintenance or adding options. They are designed and made for rough treatment, providing heavy-duty, long life operation with low current draw and are available in seven different versions, including a mini series for compact mounting applications. Lenses and lamp modules are of equal size so that they can be placed anywhere in the lightbar. Now you have the "Freedom" to easily build the exact lightbar you've been looking for.

All Edge Ultra Freedom Series Lightbars Feature:

- Rugged extruded aluminum I-Beam construction.
- All models meet or exceed SAE Class 1 and California Title XIII requirements.
- 70% lower amp draw over comparable strobe models.
- Four corner Linear-LED Super-LED modules, available in standard or extended lengths.
- Add up to twelve wide angle, Linear Super-LED directional modules, for a total of sixteen.
- Build your lightbar in any color combination with take-downs and LED modules in any position you want.
- Optional flashing and/or steady halogen take-down or alley lights.
- Clear outer lenses are standard, optional color lenses available.
- Available with Scan-Lock™ flash pattern control that 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.
- 75 SignalAlert™ flashes per minute, per head (default pattern).
- Standard Lengths: 44", 50", 55".
- Size: 3-3/4" (95mm) H x 12" (304mm) W x Lengths: 44-3/8" (113cm) or 49-3/4" (126cm) or 55-1/8" (140cm).
- 15' cable, passenger side exit. Driver side cable exit with 25' power cable optional.
- Five year HDP (Heavy-Duty Professional) warranty on LEDs.
- Permanent mount kit MKEZ7 included.
- Optional built-in LED Traffic Advisors.
- Custom lengths available.



Unlighted, the Edge Freedom has a "stealth look"



Ultra Freedom FL & FX Lightbars

FL & FX Features

- Choose the standard "FL" four corner Linear Super-LED or new "FX" extended corner module, then add up to twelve optional Linear Super-LED directional modules for a total of sixteen Super-LED modules. FL Series also available with two end mounted Super-LEDs.
- Optional halogen flashing take-downs and alley lights and a five or six LED Traffic Advisor™ with ultra high intensity LED or Super-LED modules.
- All LED and Halogen lighthoods are driven by an I/O module that provides choice of flash patterns. You are assured of equal light intensity from each lighthood through a voltage range of 10-16 VDC.
- Meeting NFPA 1901 Lighting Standards are Freedom NFPA lightbars with standard lengths of 55", 60" and 72".

FL Series Models: 4 corner Linears

- FL4******, 44 inch long
- FL8******, 50 inch long
- FL2******, 55 inch long

FL Series Models: 2 corner Linears

- FL4**00**, 44 inch long
- FL8**00**, 50 inch long
- FL2**00**, 55 inch long

FX Series Models: 4 extended corner Linears

- FX4******, 44 inch long
- FX8******, 50 inch long
- FX2******, 55 inch long

When lighted, comes alive with ultra bright warning impact



* Replace symbol (*) in color code on all models with lens color desired: A=amber; B=blue; C=clear; G=green; R=red

EDGE® ULTRA FREEDOM™

Ultra Freedom Mini Edge® FT Series Lightbars

Ultra Freedom Mini Edge provides you with excellent performance in a smaller size and basic configuring features, options and mounting.

FT Features

- Only 28-1/4" long with four corner Linear-LED® modules standard.
- Rivals strobe in intensity with only 30% of strobe current draw, only 2.5 amps @13.6 VDC.
- Easy access to internal components utilize snap in brackets, components change easily using only a screwdriver.
- Clear outer lenses, optional color lenses available.
- Blue, Red, Amber and/or White Super-LEDs.
- Optional take-downs and alley lights.
- A maximum of four Linear-LED® modules fit in the magnet and permanent mount models, but only two halogen lamps fit in the permanent mount models.
- Permanent mount models with 15' passenger side cable.
- Size: 3-3/4" (95mm) H x 28-1/4" (717mm) W x 12" (304mm) D.

FT Series:

- FT8****P**, Permanent Mount
- FT8****M**, Magnetic Mount
- FT8****F**, Permanent Mount Front Facing

Compact mounting footprint, yet brilliant warning



Permanent Mount



Magnetic Mount with coiled cord and cigar plug

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.

Ultra Freedom FV & FW Series WeCan™ Programmable Lightbars

WeCan Programmable Lightbar Series. Similar to the FL & FX Series but includes an external interface unit, the WeCan electronic control module (ECM), which controls 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. This small cable allows for easier overall wiring and lightbar installation. Up to twelve different programmed warning configurations can be operated via customer-supplied switching to each of only twelve input wires to the ECM (default program pre-installed). Once the ECM is programmed, selection of these wires will allow for:

FV & FW Features

- Phase control of each lighthouse with four phases allows for alternating, simultaneous and combination flash patterns.
- Cruise light control with almost unlimited adjustable intensity levels.
- Complete independent On/Off control of each lighthouse.
- Flashing pattern control of each lighthouse.
- Independent (sequential) or 2-wire control of the traffic arrow functions (left, right, split, and does not require a Traffic Advisor control head).
- Independent Hi/Low control is available to any one or more Super-LED lighthouses, excluding the four corner modules (required for SAE certification).
- The FV Series has four standard length Linear-LED corner modules with FLALY or MR16 alley light options.
- The FW Series has four extended length Linear-LED corner modules with MR11 alley light option.



"No one can control your lightbar like **WE CAN**"

Electronic Control Module



Laptop or PC is used to configure control of the lightbar

WeCan program installs into your computer via CD



FV Series:

4 corner Linears

FV4****, 44 inch long

FV8****, 50 inch long

FV2****, 55 inch long

FW Series:

4 extended corner Linears

FW4****, 44 inch long

FW8****, 50 inch long

FW2****, 55 inch long

Edge® Ultra Freedom II FC Series Super-LED® Lightbars

The Freedom II FC Series has all the great features of the FW lightbars with extended corner modules plus independent control of upper and lower levels of each split color lighthouse.

FC Series:

4 extended corner Linears

FC4####, 44 inch long

FC8####, 50 inch long

FC2####, 55 inch long

FC Features

- Includes four extended corner over/under Linear Super-LEDs with independent control of upper and lower levels of each lighthouse. In red, blue, amber and/or white split combination or single color Super-LEDs. Clear outer lens and clear dividers. Insert the split color or single color required. Low current switching with multiple flash patterns and passenger side cable exit.



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

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 ○ = Contact Factory

OPTION DESCRIPTION	MODEL	ULTRA FC, FW, FV, FX AND FL SERIES															FT SERIES					
		FC4****	FC8****	FC2****	FW4****	FW8****	FW2****	FV4****	FV8****	FV2****	FX4****	FX8****	FX2****	FL4****	FL8****	FL2****	FL4**00	FL8**00	FL2**00	FT8****P	FT8****M	FT8****F
Two halogen take-down light, not for use with FTALY	FTTD2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	✓	✓
Two halogen alley lights, not for use with FTALY	FTALY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	✓	✓
Two 400 Series Linear-LED's, blue, red and/or amber	FTD**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	✓	✓
Four 400 Series Linear-LED's, blue, red, amber and/or white	FTD****	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	✓	-
Two blue, red, amber and/or white inboard direc. Super-LED® Lamps	FLD**	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-	
Two red, blue and/or amber split color combinations, inboard Super-LED module, for FC Series only	FCD##	✓	✓	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Driver side cable exit, includes 25' power and ground cable	FLDSCBL	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-	
Two Super-LED flashing/take-down lights	FLTDLED	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-	
Two Super-LED® Flashing Alley Lights for FL or FV Series Only, Do Not Use with FC, FX or FW Series	FLALLED	-	-	-	-	-	✓	✓	✓	-	-	-	✓	✓	✓	✓	✓	✓	-	-	-	
Two halogen flashing take-down lights	FLH2CC	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-	
Two MR16 halogen flashing take-down lights	FLTDM6	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-	
Two MR16 halogen flashing alley lights for FL or FV Series only, do not use with FX or FW Series	FLAM6	-	-	-	-	-	✓	✓	✓	-	-	-	✓	✓	✓	✓	✓	✓	-	-	-	
Two halogen flashing alley lights for FL or FV series only, do not use with FC, FX or FW Series	FLALY	-	-	-	-	-	✓	✓	✓	-	-	-	✓	✓	✓	✓	✓	✓	-	-	-	
Two MR11 flashing alley lights for FC, FX or FW Series only, do not use with FL or FV Series lightbars	FXAM1	✓	✓	✓	✓	✓	✓	✓	-	-	-	✓	✓	✓	-	-	-	-	-	-	-	
Two Halogen Work Lights	FLWL2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-	
Two LED brake/tail/turn 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 FC, FX, FV or FW Series	FLCRUZ**	-	-	-	-	-	-	-	-	-	-	-	✓	✓	✓	✓	✓	✓	-	-	-	
Six 400 Series LED Traffic Advisor™, includes control head	FLTA46L	-	-	-	-	-	-	-	-	-	-	✓	✓	✓	✓	-	-	-	-	-	-	
Five 400 Series LED Traffic Advisor, includes control head	FLTA45L	-	-	-	-	-	-	-	-	-	-	✓	-	✓	✓	-	-	-	-	-	-	
Six Lamp LED Traffic Advisor, two wire control, no control head	FLTA46LL	-	✓	✓	-	✓	✓	-	✓	✓	-	✓	✓	-	-	-	-	-	-	-	-	
Five Lamp LED Traffic Advisor, two wire control, no control head	FLTA45LL	✓	-	-	✓	-	✓	-	✓	-	-	-	-	-	-	-	-	-	-	-	-	
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, no control head	FLTALN5L	✓	-	-	✓	-	✓	-	✓	-	-	✓	-	-	-	-	-	-	-	-	-	
Six Linear Super-LED Traffic Advisor, two wire control, no control head	FLTALN6L	-	✓	✓	-	✓	✓	-	✓	✓	-	✓	✓	-	✓	✓	-	-	-	-	-	
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 maximum	FLW\$\$\$00	✓	-	-	✓	-	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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 maximum	FLX\$\$\$00	-	✓	✓	-	✓	✓	-	✓	✓	-	-	-	-	-	-	-	-	-	-	-	
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 maximum	FLY\$\$\$00	-	-	-	-	-	-	-	-	-	✓	-	✓	-	-	-	-	-	-	-	-	
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 maximum	FLZ\$\$\$00	-	-	-	-	-	-	-	-	-	✓	✓	-	✓	✓	-	-	-	-	-	-	
Five Linear Super-LED Duplex Traffic Advisor, requires no special control head, replace symbol "S" with number of split warning LED color, order is red/blue/amber, 5 maximum, for FC Series only	FCW\$\$\$00	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Six Linear Super-LED Duplex Traffic Advisor, requires no special control head, replace symbol "S" with number of split warning LED color, order is red/blue/amber, 6 maximum, for FC Series only	FCX\$\$\$00	-	✓	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Custom length up to 98" (insert required length in model # 60", 66", 72", 77", 82", 88", 93", or 98")	9LLTH_	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-	
Bulk package of 18 Edge Ultra Freedom Series lightbars, in place of standard individually boxed lightbars	FLBULK18	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-	
49" lightbar pre-wired for 3M® Model 9592 Opticom®	9UOPTI49	-	✓	-	-	✓	-	✓	-	-	-	✓	-	✓	-	-	✓	-	-	-	-	
55" lightbar pre-wired for 3M® Model 9592 Opticom®	9UOPTI55	-	-	✓	-	-	✓	-	✓	-	-	✓	-	✓	-	-	✓	-	-	-	-	
3M® Emitter for Edge® and Edge+Plus™ Lightbars	9592	-	✓	✓	-	✓	✓	-	✓	✓	-	✓	✓	-	✓	✓	-	✓	-	-	-	



FLTALN6L - Linear-LED Traffic Advisor



FLALY - Alley Light



FXAM1 MR11 Alley Light



FW Extended Corner Light

WHELEN®
ENGINEERING COMPANY, INC.



Designed & Manufactured in the U.S.A.**

Route 145, Winthrop Road, Chester, CT 06412
860-526-9504 • Fax 860-526-4078
www.whelen.com



FLH2C Flashing Take-Down



FLDA Super-LED Option

Whelen Engineering reserves the right to upgrade and improve products without prior notice.

** Some back-up alarms are custom made for Whelen in Canada.

NASCAR® is a registered trademark of the National Association for Stock Car Auto Racing, Inc.

© 2007 Whelen Engineering Company, Inc. Printed in U.S.A. Code 11466E 091907

* Replace symbol (*) in color code on all models with lens color desired:
A=amber; B=blue; C=clear; G=green; R=red