

MANUFACTURED IN AMERICA

2025-2026

AMBER ESSENTIALS

PROFESSIONAL WARNING AND LIGHTING

A guide to Whelen's warning and lighting products

WHELEN ENGINEERING COMPANY, INC.



WHELEN[®]
MANUFACTURED IN AMERICA

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About Whelen

Since 1952, Whelen Engineering has been a trusted partner to those who keep our roads, worksites, and communities safe. We are driven by our mission to protect and empower the everyday professionals who ensure the smooth operation of essential services. From advanced warning lights to white illumination, sirens, controllers, and software, every Whelen product is designed, manufactured, and tested in America to deliver exceptional performance in any condition.

We are committed to providing high-quality, reliable solutions tailored to the unique challenges faced by commercial, DOT, and municipal fleets. We're honored to support the professionals who keep America moving forward and take pride in equipping them with the tools they need to enhance efficiency, visibility, and safety.

Manufactured in America for Over 70 Years
We never left and we're here to stay.



Chester, Connecticut facility



Charlestown, New Hampshire facility

SCAN QR CODES FOR ADDITIONAL INFO AND RESOURCES



Whelen Website

Explore our full range of emergency lighting and warning products, access literature, read our blog, stay updated on upcoming tradeshow, and much more – it's all on whelen.com.



Software Downloads

Everything you need to program and test your Whelen product configurations, including WeCad™, Whelen Command®, and Pioneer™ Designer is available at whelen.com/software-downloads.



Simulate™

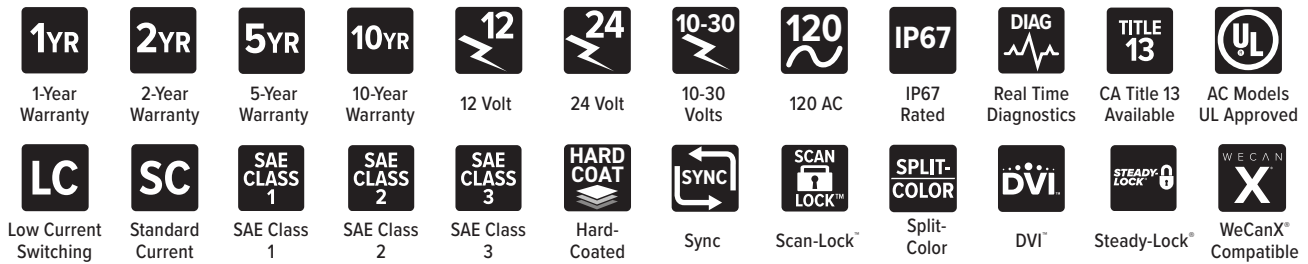
See and hear your Whelen Command WeCanX® configurations before transferring them to your vehicle. Simulate saves time and streamlines programming. Visit simulate.whelen.com to learn more.



Warranty Disclaimer

For our full warranty statement please visit www.whelen.com/warranty.

ICON LEGEND



TECH GLOSSARY

BroadBand Blue™

BroadBand Blue delivers a higher intensity, creates a larger optical image, and produces a more consistent color, all while being easier on the eyes - especially at night.

Conformal Coating

A thin material that conforms to the contours of the PCB to protect the electronic components from harsh environments and impact.

DUO™

Two-color interleaved with independent control of color one and color two

Dynamic Variable Intensity™ (DVI)

DVI patterns gradually increase and decrease warning light intensity, which better conveys visual information to approaching motorists at night. These patterns clearly indicate when a vehicle is parked and improve a driver's ability to safely navigate around a work zone.

DYAD™

Two-level technology

E Block™

Whelen's patented E Block technology protects against the elements by creating a watertight seal around a unit's stranded wires, preventing moisture from entering the lighthouse.

Encapsulated

Lighthoods are fully encapsulated for moisture and vibration resistance.

Hard-Coat

Whelen's industry-first innovative Hard-Coating process counteracts the effects of environmental and chemical damages to our lenses and domes.

Linear-LED® (Super-LED®)

Whelen's optimized use of the latest generation of LEDs and unique reflector optics to produce highly intense light that has superior wide-angle visibility and rivals strobe in performance.

Low Current

Low current function wires require less than 0.25 amp to operate, allowing for simple operation of each lightbar function.

ProFocus™

Whelen's innovative single optic LED technology that can be customized and programmed as a spotlight or floodlight, with no moving parts.

Proclera® Silicone Optics

Whelen's innovative and efficient solution to distorted optical shape and fringe lighting. Proclera Optics feature 100% internal silicone optic technology, an increased ability to harness LED output and better direct and focus light, and a fully-filled square TIR™ optic to increase optic efficiency compared to a conventional circular TIR.

Rota-Beam™

Solid-state "rotating" technology, simulating the appearance of a rotating beacon without any moving parts or motors for long-life reliability.

Scan-Lock™

Whelen's advanced method of changing a product's flash pattern. Scan-Lock utilizes an external wire to allow the user to cycle through the entire range of flash patterns, allowing for full customization.

Scan-Lock+™

The Scan-Lock+ app is the simplest way to change Whelen flash patterns. Designed for optimal convenience, Scan-Lock+ features an easy to use interface and utilizes a Bluetooth connection. Download the Scan-Lock+ app and browse, test, and assign Whelen flash patterns right from your phone.

SmartLED®

Whelen's distinctive use of self-contained electronics to power and flash a particular LED product. These products require no external flasher, ballast, or power supply to operate.

SOLO™

Single-color LEDs

Split

Two-color lighthouse where each color fills half of the reflector.

Standard Current

Lightbar functions are wired directly to the switching device and require switches that are matched to the current draw of the desired functions to be activated.

Steady-Lock™

A time-saving feature that allows Whelen's most popular warning lighthoods to be set to Steady automatically when used with a CenCom Core® system.

Super-LED™

Whelen's innovative LED technology

Sync

Sync provides the ability to connect multiple Whelen devices to flash together or in alternating patterns. Products with this capability allow the user to create coordinating flashing schemes.

TIR™ - (Total Internal Reflection)

Whelen's optimized use of the latest generation of LEDs and unique reflector optics to produce highly intense light that can be directional in nature.

TRIO™

Three-color interleaved with independent control of color one, color two, and color three

WeCad™

Engineered for optimal accessibility, WeCad lightbar designer delivers the ability to design custom Whelen lightbars with every available option. Adding R65 compliant options is simple, and a bill of materials will be generated to make ordering fast and easy.

WeCanX™

Whelen's smartest and most powerful CAN-based communication system. WeCanX provides true system synchronization, greater speed capabilities, expanded peripheral add-ons, and full support of diagnostics.

LIGHTBAR

Justice® Series



Features available across product family.
May not apply to every model.

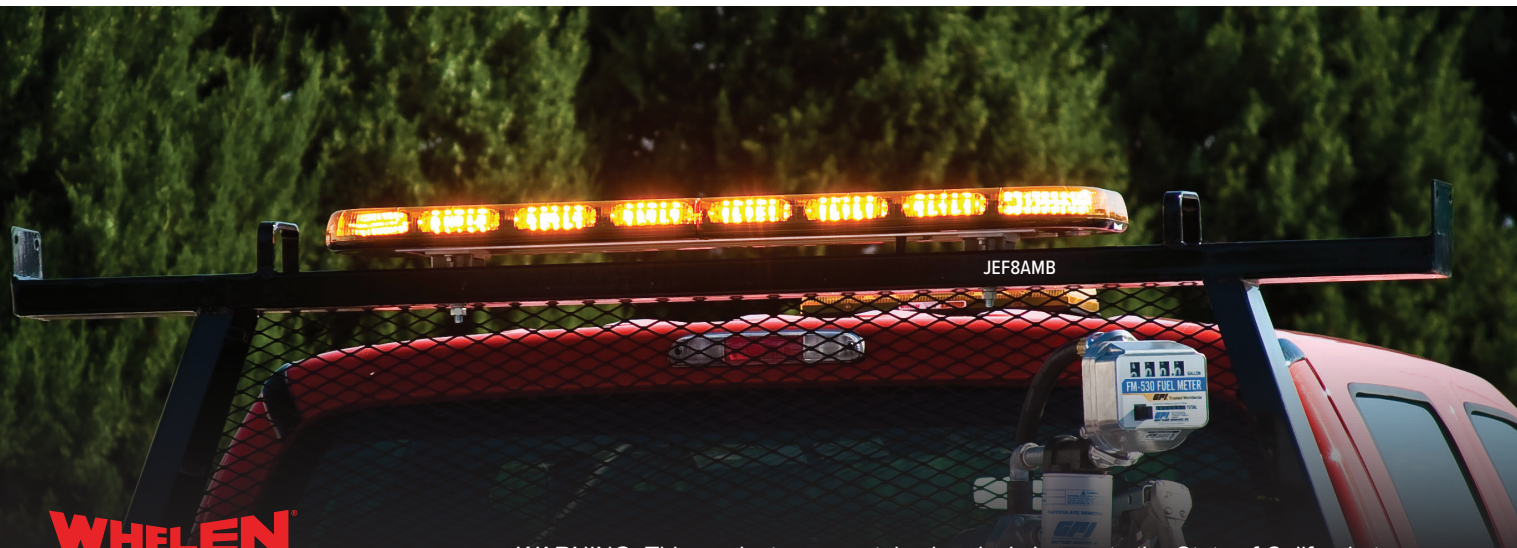


JEF8AMB

FEATURES

- Linear Super-LED® technology
- Black polycarbonate base on extruded aluminum platform
- 52 Scan-Lock™ flash patterns
- Amber LEDs with Clear lens
- Advanced thermal design
- 15' (4.51 m) passenger side exit cable
- Easily upgraded in the field
- Mounting Kit 29 included, enables permanent and strap mounting (additional components required for strap mounting)
- 12 VDC
- 8 amps (peak), 3.20 amps (avg.)
- SAE Class 1

Model	Modules	Dimensions
JEF8AMB	4-Corner Linear Super-LED and 14 CON3™ Inboard Modules	50" (127 cm) L x 2.2" (57mm) H x 12" (304 mm) W
JEF2AMB	4-Corner Linear Super-LED and 16 CON3 Inboard Modules	56" (143 cm) L x 2.2" (57mm) H x 12" (304 mm) W



MINI LIGHTBARS

Responder® R1LP Series



Features available across product family.
May not apply to every model..



FEATURES

- 6 conical modules
- 100% solid-state electronics
- Black polycarbonate base and platform
- CON3™ Super-LED®
- Amber or Clear polycarbonate dome
- 55 Scan-Lock™ flash patterns including 4 simulated rotating patterns (permanent mount only)
- ActionScan™ default (magnetic mount only)
- 12 VDC
- 3 amps (peak), 1.20 amps (avg.)
- SAE Class 1

Model	Mount	LED Color	Dome Color	Dimensions
R1LPPA	Permanent	Amber	Amber	17" (432 mm) L x 3.25" (83 mm) H x 6.31" (160 mm) W
R1LPPF	Permanent	Amber/White	Clear	
R1LPPCA	Permanent	Amber	Clear	
R1LPMA	Magnetic	Amber	Amber	
R1LPMCA	Magnetic	Amber	Clear	
R1LPMF	Magnetic	Amber/White	Clear	
R1LPVA	Magnetic/Suction	Amber	Amber	
R1LPVCA	Magnetic/Suction	Amber	Clear	
R1LPVF	Magnetic/Suction	Amber/White	Clear	



The use of a magnetic mounted beacon or lightbar on the roof of a vehicle in motion is not recommended and is at the sole discretion and risk of the user.



GFFORD1W with OE Brake Light, pg. 23

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Responder® R2LP Series



Features available across product family.
May not apply to every model.



R2LPMF

FEATURES

- 6 Linear Super-LED® modules
- 100% solid-state electronics
- Amber or Clear polycarbonate dome
- 55 Scan-Lock® flash patterns including 4 simulated rotating patterns (permanent mount only)
- Dynamic Variable Intensity™ (DVI™) light patterns (R2LPPCAD, R2LPPAD)
- ActionScan™ flash patterns default (magnetic mount only)
- 12 VDC
- 6 amps (peak), 2.40 amps (avg.)
- SAE Class 1

Model	Mount	LED Color	Dome Color	Dimensions
Polycarbonate Base				
R2LPPA	Permanent	Amber	Clear	17" (432 mm) L x 2.88" (74 mm) H x 6.31" (160 mm) W
R2LPPCA	Permanent	Amber	Clear	
R2LPPF	Permanent	Amber/White (Split-Color)	Clear	
R2LPPM	Permanent	Amber/Blue (Split-Color)	Amber	
R2LPMA	Magnetic	Amber	Clear	
R2LPMCA	Magnetic	Amber	Clear	
R2LPMF	Magnetic	Amber/White (Split-Color)	Amber	
R2LPVA	Magnetic/Suction	Amber	Clear	
R2LPVCA	Magnetic/Suction	Amber	Clear	
R2LPVF	Magnetic/Suction	Amber/White (Split-Color)	Amber	
Aluminum Base				
R2LPHPA	Permanent	Amber	Clear	17" (432 mm) L x 3.25" (83 mm) H x 6.31" (160 mm) W
R2LPHPCA	Permanent	Amber	Amber	
R2LPHMA	Magnetic	Amber	Clear	
R2LPHMCA	Magnetic	Amber	Amber	
R2LPHVA	Magnetic/Suction	Amber	Clear	
R2LPHVCA	Magnetic/Suction	Amber	Clear	
R2LPPCAD	Permanent	Amber with DVI™ and Photocell	Clear	
R2LPPAD	Permanent	Amber with DVI™ and Photocell	Amber	



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R2LPHVA

Mini Century™ Series



Features available across product family.
May not apply to every model.



MC16PA



MC23VA



MC11MA

FEATURES

- 4 Linear Super-LED® corners and TIR6™ Super-LED inboards
- Extruded aluminum platform
- Compression fit gasket
- Preconfigured lightbars
- 100% solid-state electronics
- Standard current switching and patterns
- 17 Scan-Lock™ flash patterns
- Aluminum base
- Amber or Clear polycarbonate dome
- 12 VDC
- MC11: 3.60 amps (peak), 2.20 amps (avg.)
- MC16: 4.80 amps (peak), 3 amps (avg.)
- MC23: 7.20 amps (peak), 4.40 amps (avg.)
- SAE Class 1

Model	Mount	LED Color	Dimensions
MC11MA	Magnetic	Amber	11.50" (292 mm) L x 2.40" (61 mm) H x 7.74" (197 mm) W
MC11MCA	Magnetic	Amber	
MC11PA	Permanent	Amber	
MC11SA	Stud	Amber	16.56" (421 mm) L x 2.40" (61 mm) H x 7.74" (197 mm) W
MC11SCA	Stud	Amber/White	
MC16PA	Permanent	Amber	
MC16PCA	Permanent	Amber	
MC16PF	Permanent	Amber Driver, White Passenger	
MC16PM	Permanent	Amber/Blue	
MC16MA	Magnetic	Amber	
MC16MCA	Magnetic	Amber	
MC16MF	Magnetic	Amber Driver, White Passenger	
MC16VA	Magnetic/Suction	Amber	
MC16VCA	Magnetic/Suction	Amber	
MC16VF	Magnetic/Suction	Amber Driver, White Passenger	
MC16VM	Magnetic/Suction	Amber/Blue	
MC16SA	Stud	Amber	
MC16SF	Stud	Amber Driver, White Passenger	
MC23PA	Permanent	Amber	
MC23PCA	Permanent	Amber	
MC23PF	Permanent	Amber Driver, White Passenger	
MC23PM	Permanent	Amber/Blue	
MC23MA	Magnetic	Amber	
MC23MCA	Magnetic	Amber	
MC23MF	Magnetic	Amber Driver, White Passenger	
MC23VA	Magnetic/Suction	Amber	
MC23VCA	Magnetic/Suction	Amber	
MC23VF	Magnetic/Suction	Amber Driver, White Passenger	
MC23VM	Magnetic/Suction	Amber/Blue	
MC23SA	Stud	Amber	
MC23SCA	Stud	Amber	
MC23SF	Stud	Amber Driver, White Passenger	
MC23SM	Stud	Amber/Blue	



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MJEP1A



Mini Justice® Series

5YR 12 SC SAE CLASS 1 HARD COAT SCAN LOCK™ **SOLO™ PROCLERA®**

Features available across product family.
May not apply to every model.



MJEG1A

FEATURES

- 4 Linear-LED® corners and 4 conical inboard modules
- Black polycarbonate base on extruded aluminum platform
- Clear polycarbonate dome
- 95 Scan-Lock™ flash patterns (permanent mount)
- 100% solid-state electronics
- Preconfigured lightbars
- Linear and CON3™ Super-LED®
- 12 VDC
- 6 amps (peak), 2.40 amps (avg.) (4-corner only)
- SAE Class 1

Model	Mount	LED Color	Dimensions
MJEP1A	Permanent	Amber	22" (585 mm) L x 2.25" (57 mm) H x 12" (304 mm) W
MJEP1F	Permanent	Amber/White	
MJEP1M	Permanent	Amber/Blue	
MJEG1A	Magnetic	Amber	
MJEG1F	Magnetic	Amber/White	
MJEG1M	Magnetic	Amber/Blue	
MJES1A	Stud	Amber	



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Mini Liberty™ II Series

5YR 12 SC SCAN LOCK™ HARD COAT SAE CLASS 1 **SOLO™ PROCLERA®**

Features available across product family.
May not apply to every model.




IT9AAAAP

FEATURES


- 4 Corner Linear Super-LED® modules
- Extruded aluminum base
- Clear polycarbonate dome
- 100% solid-state electronics
- Advanced thermal design
- 67 Scan-Lock™ flash patterns for permanent mount
- SignalAlert™ 75 for magnetic mount
- 12 VDC
- 4 amps (peak), 1.6 amps (avg.)
- SAE Class 1

Model	Mount	LED Color	Dimensions
IT9AAAAP	Permanent	Amber	19.31" (491 mm) L x 2.53" (64 mm) H x
IT9AAAAM	Magnetic	Amber	11.31" (287 mm) W


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IT9AAAAM


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TRAFFIC ADVISOR™

Traffic Advisor 2200 Series



Features available across product family. May not apply to every model..



TACTL5 Control Head Included



TA2240F

FEATURES

- Utilizes powerful T-Series™ lightheades with patented E Block™ technology
- IP67 Rated
- Compatible with TACTL5 control head and CTA module
- Hard-coated lenses resist environmental damage from sand, sun, salt, and road chemicals
- Low current switching
- Slide bolt mount
- 2 flat end caps included
- 6 or 8 lamps
- TACTL5 control head included
- 10-30 VDC
- SAE Class 1 and CA Title 13

Model	Lightheades	Dimensions	Length
TA2230F	Super-LED®	1.66" (42 mm) H x	32" (81 cm) w/ Flat End Caps
TA2240F	Super-LED	2.28" (58 mm) W	42" (107 cm) w/ Flat End Caps

☉ Contact your Whelen sales representative for a complete list of available options.



TACF85, pg. 11

Traffic Advisor™ Front Load



Features available across product family.
May not apply to every model.



TACTL5 Control Head Included



TACF85

FEATURES

- Interior or exterior applications
- Left arrow, right arrow, split arrow, and warning function
- Extruded aluminum housing
- Fully encapsulated for moisture, vibration, and corrosion resistance
- 8 lamps
- CON3™
- 12 VDC
- SAE Class 1

Model	Description	Dimensions
TACF85	15' Cable, Includes Clear Lens and TACTL5 Control Head	45.13" (115 cm) L x 2.38" (60 mm) H x 2.38" (60 mm) W
TACF85LH	15' Cable, Includes Amber Lens and TACTL5 Control Head	45.13" (115 cm) L x 2.38" (60 mm) H x 2.38" (60 mm) W

Contact your Whelen sales representative for a complete list of available options.

Traffic Advisor TAC8 (Economy)



Features available across product family.
May not apply to every model.



Control Head Included



TAC815

FEATURES

- Black extruded aluminum housing
- 4 operating modes: left, right, split, or flashing
- Control head mounting kit included and allows for VHB double-sided adhesive, Velcro®, and permanent mount
- Rear dip switch provides 8 flash pattern choices
- 8 lamps
- SOLO™ Super-LED®
- 12 VDC
- SAE Class 1

Model	Description	Dimensions
TAC815	15' Cable, Includes Control Head	47.75" (121 cm) L x 2.0" (60 mm) H x 2.64" (70 mm) W
TAC830	30' Cable, Includes Control Head	47.75" (121 cm) L x 2.0" (60 mm) H x 2.64" (70 mm) W
TAC850	50' Cable, Includes Control Head	47.75" (121 cm) L x 2.0" (60 mm) H x 2.64" (70 mm) W

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BEACONS

L10 Series




Features available across product family.
May not apply to every model.

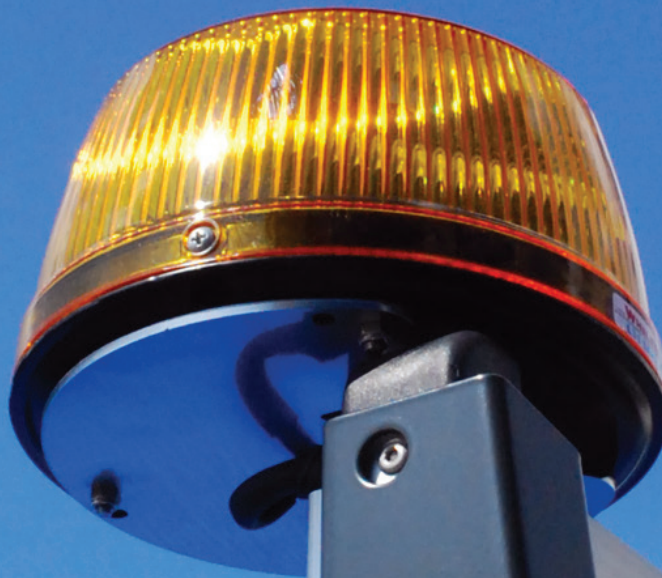


FEATURES

- Full reverse polarity protected
- 100% solid-state electronics
- Conformal coated electronics for moisture and vibration resistance
- Virtually no RFI/EMI radiation
- SignalAlert™ 75
- 18 Scan-Lock™
- High and low profiles available
- 12 VDC
- 1 amp (peak), 0.40 amp (avg.)

Model	Mount	LED Color	Compliance	Dimensions
L10HAM	Magnetic	Amber	SAE Class 1	6.4" (163 mm) H x 6.3" (161 mm) Dia.
L10HAP	Permanent	Amber		
L10HAV	Magnetic/ Suction	Amber		
L10LAM	Magnetic	Amber		4.9" (125 mm) H x 6.3" (161 mm) Dia.
L10LAP	Permanent	Amber		
L10LAV	Magnetic/ Suction	Amber		

 Contact your Whelen sales representative for a complete list of available options. The use of a magnetic or suction mounted beacon on the roof of a vehicle in motion is not recommended, and is at the sole discretion and risk of the user.



L31HAF, pg. 13

L21 Series



Features available across product family.
May not apply to every model.

FEATURES

- Full reverse polarity protected
- 100% solid-state electronics
- Fully encapsulated for moisture, vibration, and corrosion resistance
- Virtually no RFI/EMI radiation
- Polycarbonate base
- 25 Scan-Lock™ flash patterns including Steady-Burn on permanent mounts only
- SignalAlert™ 75 Default and 25 Scan-Lock flash patterns on magnetic/magnetic suction mounts only
- High and low profiles available
- 12 VDC
- 1.50 amp (peak), 0.60 amp (avg.)



L21LAM

L21HAP

Model	Mount	LED Color	Compliance	Dimensions
L21HAP	Combination	Amber	SAE Class 1 (Amber) and SAE Class 3 (Amber)	6.81" (172 mm) H x 6.44" (163 mm) Dia.
L21HAM	Magnetic	Amber		
L21H1P	Permanent	Amber/White		
L21L1P	Permanent	Amber/White		
L21HAV	Magnetic/Suction	Amber		5.31" (134 mm) H x 6.44" (163 mm) Dia.
L21LAP	Combination	Amber		
L21LAM	Magnetic	Amber		
L21LAV	Magnetic/Suction	Amber		



Contact your Whelen sales representative for a complete list of available options.
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L21 SERIES OPTIONS



BGH
Branch Guard High



BGL
Branch Guard Low



MIRROR20
Mirror Mount Bracket

L31 & L32 Series



Features available across product family.
May not apply to every model.

Please contact Whelen for specific photometric information regarding CA Title 13 lighthead and configurable lightbar product conformance.

FEATURES

- Self-cleaning dome
- Full reverse polarity protected
- 100% solid-state electronics
- Conformal coated electronics
- Virtually no RFI/EMI radiation
- Die-cast aluminum base
- Permanent mount models have 69 Scan-Lock™ flash patterns including 4 simulated rotating patterns
- Magnetic mount models have SignalAlert™ 75 flash patterns only
- Hi/Low intensity control, permanent mount only
- 12/24 VDC
- L31: 4.0 amps (peak), 1.6 amps (avg.) @ 12 VDC
- L32: 2.0 amps (peak), 0.80 amps (avg.) @ 24 VDC



L31HAF



L32LAF

Model	Mount	LED Color	Compliance	Dimensions
L31HAF	Permanent	Amber	SAE Class 1	4.0" (102 mm) H x 7.19" (182 mm) Dia
L31HAM	Magnetic	Amber		
L31HAV	Magnetic/Suction	Amber		
L31HAF4	Permanent	Amber		
L31HAFCA	Permanent	Amber	Meets CA T13	SAE Class 1
L32LAF	Permanent	Amber		
L32LAM	Magnetic	Amber		
L32LAV	Magnetic/Suction	Amber		



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L41 Series



Features available across product family.
May not apply to every model.



L41AP



L41AM

FEATURES

- Self-cleaning dome
- Full reverse polarity protected
- 100% solid-state electronics
- Fully encapsulated for moisture, vibration, and corrosion resistance
- Virtually no RFI/EMI radiation
- Permanent, magnetic, and magnetic suction mounts available
- Powder-coated die-cast aluminum base
- SignalAlert™ 75 default
- 25 selectable patterns total, including Steady-Burn
- Photocell Hi/Low on permanent mount only (special order only, please contact factory)
- 12 VDC
- 1.5 amps (peak), 0.6 amp (avg.)

Model	Mount	LED Color	Compliance	Dimensions
L41AP	Permanent	Amber	SAE Class 1	4.75" (121 mm) H x 6.44" (164 mm) Dia.
L41AM	Magnetic	Amber		
L41AV	Magnetic/Suction	Amber		

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L50 Series



Features available across product family.
May not apply to every model.



L53AM



L51AP

FEATURES

- Twist-off dome
- Full reverse polarity protected
- 100% solid-state electronics
- Conformal coated electronics for moisture and vibration resistance
- L51AP: 25 Scan-Lock™
- L53AP: 15 Scan-Lock™
- Cigar Plug Models: SignalAlert™ 75 Only
- Virtually no RFI/EMI radiation
- Polycarbonate base
- 12 VDC
- L51AP/AM: 1.5 amps (peak), 0.6 amp (avg.)
- L53AP/AM: 0.4 amp (peak), 0.16 amp (avg.)

Model	Mount	Compliance	Dimensions
L51AP	Permanent	SAE Class 1	3.75" (95 mm) H x 5" (127 mm) Dia.
L51AM	Magnetic		
L53AP	Permanent	SAE Class 3	
L53AM	Magnetic		

Contact your Whelen sales representative for a complete list of available options.
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OPTION



MIRROR15
Mirror Mount Bracket

ILLUMINATION

Pioneer Nano™



Features available across product family.
May not apply to every model.



FEATURES

- 8° spotlight pattern standard
- Includes an additional 40° x 20° flood optic lens
- Optic lens changes easily via removable lens retainer
- Injection-molded polycarbonate lenses are impact resistant
- Die-cast aluminum powder-coated housing
- Solid-state electronics
- LEDs are instant On/Off, eliminating ramp-up time and high current inrush
- Correlated Color Temperature (CCT) of 5,700° kelvin simulates bright midday light
- 72" (182.88 cm) cable included
- Black or White housing
- 3 or 6 diodes
- 12 VDC
- 3-LED: 1.0 (avg.)
- 6-LED: 1.5 (avg.)

Model	Mount	Dimensions
NP3BW	3-LED, with Bail	2.23" (57 mm) H x 3.50" (89 mm) W x 1.77" (45 mm) D
NP3BB	3-LED, with Bail	
NP6BW	6-LED, with Bail	2.98" (76 mm) H x 3.50" (89 mm) W x 1.77" (45 mm) D
NP6BB	6-LED, with Bail	

Contact your Whelen sales representative for a complete list of available options.

Rubber Housing Spot/Floodlight



Features available across product family.
May not apply to every model.



P36SLCHG

FEATURES

- Rubber housing with stainless steel stud/swivel
- Hard-coated lenses resist environmental damage from sand, sun, salt, and road chemicals
- 12 VDC
- 0.85 amp

Model	Description	Dimensions
P36SLCHG	PAR-36, Combination Spotlight/Floodlight	5.5" (139 mm) H x 3.75" (94 mm) D x 4.81" (122 mm) Dia

Contact your Whelen sales representative for a complete list of available options.

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2G and 5G Series



Features available across product family.
May not apply to every model.



2GT



5GA



5GC

FEATURES

- Super-LED® technology
- Hard-coated lenses resist environmental damage from sand, sun, salt, and road chemicals
- Fully encapsulated for moisture, vibration, and corrosion resistance
- 9" (22.86 cm) pigtail and vinyl grommet included
- 33 Scan-Lock™ flash patterns and synchronization
- 5G: Vertical or horizontal mount
- 10-30 VDC
- Amps @ 12.8 VDC
 - SOLO: 0.71 (peak), 0.29 (avg.)
 - Turn: 0.41 (peak), 0.22 (avg.)
 - BTT: 0.27 Brake, 0.03 Tail
 - Split: 0.54 (peak), 0.23 (avg.) per color
 - Back-Up: 0.16 (peak), 0.09 (avg.)

Model	Description	Lens Color	Compliance	Dimensions
2G				
2GA	Amber LED, Warning Light	Amber	SAE Class 1 (Warning Lights Only), CA Title 13 (Warning Lights Only), IP67	1.25" (32 mm) D (with grommet) x 5.5" (140 mm) Dia.
2GC	White LED, Warning Light	Clear		
2GAC	Amber LED, Warning Light	Clear		
2G#	Split-Color, Independent On/Off Control of Each Color	Clear		
2GBTT	Red LED, Brake/Tail/Turn	Red		
2GBTTC	Red LED, Brake/Tail/Turn	Clear		
2GT	Amber LED, Turn Light	Amber		
2GTC	Amber LED, Turn Light	Clear		
2GBU	White LED, Back-up Light	Clear		
2GA1	Amber LED, Warning Light with Superseal Connector	Amber		
2GAC1	Amber LED, Warning Light with Superseal Connector	Clear		
2GBTT1	Red LED, Brake/Tail/Turn with Industry Standard Connector	Red		
5G				
5GA	Amber LED, Warning Light	Amber	SAE Class 1 (Warning Lights Only), CA Title 13 (Warning Lights Only), IP67	7.59" (19.27 cm) W x 3.39" (8.61 cm) H x 1.41" (3.58 cm) D
5GC	White LED, Warning Light	Clear		
5GAC	Amber LED, Warning Light	Clear		
5G#	Split-Color, Independent On/Off Control of Each Color	Clear		
5GBTT	Red LED, Brake/Tail/Turn	Red		
5GBTTC	Red LED, Brake/Tail/Turn	Clear		
5GT	Amber LED, Turn Light	Amber		
5GTC	Amber LED, Turn Light	Clear		
5GBU	Clear LED, Back-Up Light, Horizontal Mount	Clear		
5GBUV	Clear LED, Back-Up Light, Vertical Mount	Clear		
5GA1	Amber LED, Warning Light with Superseal Connector	Amber		
5GAC1	Amber LED, Warning Light with Superseal Connector	Clear		
5GBTT1	Red LED, Brake/Tail/Turn with Industry Standard Connector	Red		



Replace # symbol in model number with letter indicating split color desired: F = Amber/White, K = Red/Amber, M = Blue/Amber, P = Amber/Green
Contact your Whelen sales representative for a complete list of available options.

2G AND 5G SERIES OPTIONS



2GFLANGC
Chrome Flange



2GFLANGB
Black Flange



2GBKT1
"L" Bracket



5GBKT1
"L" Bracket



5GFLANGC
Chrome Flange



5GFLANGB
Black Flange

500 Series



Features available across product family.
May not apply to every model.



50A03ZAR

50C03ZCR

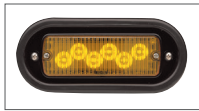
FEATURES

- TIR6™ directional optics
- Fully encapsulated for moisture, vibration, and corrosion resistance
- Requires additional mounting
- 25 Scan-Lock™ flash patterns
- 6" (15.24 cm) pigtail included
- 12 VDC
- 0.63 amp (peak), 0.32 amp (avg.)

Model	LED Color	Lens Color	Compliance	Dimensions
50A03ZAR	Amber	Amber	SAE Class 1 (Amber)	5.38" (137 mm) W x 2.13" (54 mm) H x 1.63" (41 mm) D
50A03ZCR	Amber	Clear	SAE Class 2 (Amber) and CA Title 13	
50C03ZCR	White	Clear	SAE Class 1	

Contact your Whelen sales representative for a complete list of available options.

OPTIONS



5GROMMET
Grommet



5TSMAB
Black Surface
Mount Adapter



5TSMAC
Chrome-Plated
Surface Mount Adapter



50A03ZAR

WARNING: This product may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit whelen.com/regulatory.

Strip-Lite™ Plus

10YR 12 IP67 HARD COAT SCAN LOCK™ SOLO™ DUO™

Features available across product family. May not apply to every model..

FEATURES

- Sequencing features:
 - Left, right, split, and flashing patterns
 - 6 Scan-Lock™ sequencing patterns
 - 11 Scan-Lock flashing patterns
- Surface mount via 2 screws for easy installation
- Black flange included
- Chrome flange option available
- Patented E Block™ technology prevents air and moisture from entering the lighthouse
- Symmetrical center-positioned wire exit
- SOLO™: 25 Scan-Lock flash patterns
- DUO™: 67 Scan-Lock flash patterns
- 12" (30.48 cm) pigtail cable included
- Clear lens
- 12 VDC
- 1.93 amps (peak), 0.80 amps (avg.)
- IP67 Rated



PSSEQACR Shown In Sequencing Mode

Model	Technology	LED Color	Dimensions
PSSEQACR	Sequencing Light	Amber	
PSF02FCR	DUO™	Amber/White	11.11" (282 mm) W x 1.68" (43 mm) H x 0.53" (13 mm) D
PSM02FCR	DUO	Blue/Amber	
PSA01FCR	SOLO™	Amber	



TLIA, pg. 19

Mini T-Series™



Features available across product family.
May not apply to every model..



TLMA



T-Series profile

FEATURES

- Linear Super-LED® technology
- Surface mount via 2 screws for easy installation
- 33 Scan-Lock™ flash patterns
- Black flange included, Chrome sold separately
- 12 VDC
- SOLO™: 0.4 amp (peak), 0.16 amp (avg.)
- DUO™: 0.2 amps per color (peak), 0.08 amps per color (avg.)
- SAE Class 1

Model	LED Color	Dimensions
TLMA	Amber	3.34" (85 mm) W x 1.49" (38 mm) H x 0.54" (14 mm) D
TLMIC	White	
TLM12F	Amber/White	
TLM12K	Amber/Red	
TLM12M	Amber/Blue	
TLM12P	Amber/Green	



T-Series



Features available across product family.
May not apply to every model.

Please contact Whelen for specific photometric information regarding CA Title 13 lighthead product conformance.



TLIC

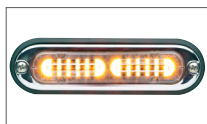
FEATURES

- Linear Super-LED® technology
- Surface mount via 2 screws for easy installation
- 33 Scan-Lock flash patterns
- Black flange included, Chrome sold separately
- 12 VDC
- SOLO: 0.82 amps (peak), 0.33 amps (avg.)
- DUO: 0.72 amps (peak), 0.28 amps (avg.)
- SAE Class 1, CA Title 13 (TLIA Only)

Model	LED Color	Dimensions
TLIA	Amber	5.14" (131 mm) W x 1.49" (38 mm) H x 0.52" (13 mm) D
TLIC	White	
TLI2F	Amber/White	
TLI2K	Amber/Red	
TLI2M	Amber/Blue	
TLI2P	Amber/Green	



T-SERIES AND MINI T-SERIES OPTIONS



T-Series:
TIONFC Chrome Flange



T-Series:
TIONBKT1 "L"
Mounting Bracket



T-Series:
TIONBKT2 License
Plate Bracket



T-Series:
TIONBKT4 Over/Under "L"
Mounting Bracket for
Two Lighthead



Mini T-Series:
TIONMLB Surface Mount
Flange/Hole Adapter,
Black. Also Available
In Chrome



Mini T-Series:
TIONMGRM
Grommet Mount Kit

WARNING: This product may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit whelen.com/regulatory.

ION® Series



Features available across product family.
May not apply to every model..



FEATURES

- Hard-coated lenses resist environmental damage from sand, sun, salt, and road chemicals
- Fully encapsulated for moisture, vibration, and corrosion resistance
- SOLO™: 33 Scan-Lock™ flash patterns
- DUO™: 67 Scan-Lock flash patterns
- Surface mount via 2 screws for easy installation
- 12" (30.48 cm) pigtail and vinyl grommet included
- 12 VDC
- SOLO: 1.0 amp (peak), 0.40 amp (avg.)
- DUO: 0.7 amp (peak), .28 amp (avg.) per color

Models	Lamp Type	LED Color	Compliance	Dimensions
IONSMA	Directional	Amber	SAE Class 1 for Both J845 and 595 & CA T13	5.91" (150 mm) W x 1.69" (43 mm) H x 1.10" (28 mm) D
IONSMC	Directional	White	SAE J595 Class 1	
IONSMF	Directional	Amber/White	SAE J595 Class 1 & J845 Class 2	
WIONSMA	Wide-Angle	Amber	SAE Class 1 for Both J845 and 595 & CA T13	
WIONSMC	Wide-Angle	White	SAE Class 1 for Both J845 and 595	
WIONSMF	Wide-Angle	Amber/White	SAE Class 1 for Both J845 and 595	

Contact your Whelen sales representative for a complete list of available options.



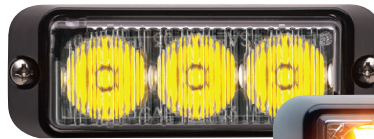
TIR3™/LIN3™ Series



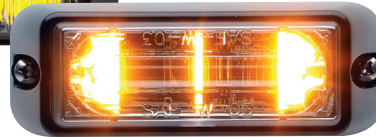
Features available across product family.
May not apply to every model.



(2) RSA03ZCR + RFLANG2C



RSA03ZCR



RSA02ZCR



RVA03ZCR

FEATURES

- Directional TIR3 or LIN3 optics
- Fully encapsulated for moisture, vibration, and corrosion resistance
- Surface mount via 2 screws for easy installation
- 26 Scan-Lock™ flash patterns
- 6" (15.24 cm) pigtail and Black polycarbonate mounting flange included
- Sync to other Whelen Sync products
- Clear lens
- 12 VDC
- 0.40 amp (peak), 0.17 amp (avg.)
- SAE Class 1

Model	Technology	Mount	Color	Dimensions
RSA03ZCR	TIR3 Super-LED®	Horizontal	Amber	3.58" (91 mm) W x 1.30" (33 mm) H x 1.34" (34 mm) D
RSC03ZCR	TIR3 Super-LED	Horizontal	White	
RVA03ZCR	TIR3 Super-LED	Vertical	Amber	3.58" (91 mm) W x 1.30" (33 mm) H x 1.34" (34 mm) D
RVC03ZCR	TIR3 Super-LED	Vertical	White	
RSA02ZCR	LIN3 Super-LED	Horizontal	Amber	3.58" (91 mm) W x 1.30" (33 mm) H x 1.34" (34 mm) D
RSC02ZCR	LIN3 Super-LED	Horizontal	White	

Contact your Whelen sales representative for a complete list of available options.

OPTIONS



RFLANGCD
Chrome Flange



RFLANG2B/RFLANG2C
Dual Surface Mount
Flange, Black or Chrome



RBKT1
"L" Mounting
Bracket for One Lighthead



RBKT2
"L" Mounting
Bracket for Two
Lighthead

WARNING: This product may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit whelen.com/regulatory.

Vertex™ Series



Features available across product family.
May not apply to every model.



VTX609A



VTX609C

FEATURES

- Self-contained light with in-line lamp driver
- Produces light in a hemispheric pattern
- Omnidirectional optics
- Fully encapsulated for moisture, vibration, and corrosion resistance
- Sync to other Whelen Sync products
- 25 Scan-Lock™ flash patterns
- Mounts internally within composite headlight and taillight assemblies
- Includes a 9' (0.30 m) pre-wired and sealed 4-C/22 gauge cable with power, pattern, and synchronize wires
- 1" (2.54 cm) hole recess or surface (mounting purchased separately)
- 12 VDC
- 0.75 amp (peak), 0.30 amp (avg.)

Model	LED Color	Compliance	Dimensions
VTX609A	Amber	SAE Class 2	1" (26 mm) H x 1.63" (41 mm) Dia.
VTX609C	White		
VTX9F	Amber/White	SAE Class 3	
VTX9K	Amber/Red		
VTX9M	Amber/Blue		
VTX9P	Amber/Green	-	



Contact your Whelen sales representative for a complete list of available options.

OPTIONS



VTXFB Black Flange



VTXFC Chrome Flange

QuickFit™

2YR

Features available across product family. May not apply to every model.



Also Available in White



Shown with OE Brake Light

FEATURES

- Mounts a variety of emergency lighting without any vehicle damage, including Whelen beacons and the following mini lightbars: Responder® LP, Mini Century™, Mini Liberty™ II, and Mini Legacy®
- Durable powder-coated aluminum or steel construction in Black or White
- Vehicle-specific vacuum-formed install kits provide a perfect fit
- Bolt-on installation system with fixed brackets requires no cutting or drilling
- Quickly and easily mounts using the screw holes of the vehicle's third brake light
- Designed to keep a level mounting surface for the life of the install
- Usable mounting area is approximately 17.25" (433mm) L x 7.25" (184.15mm) W

Models	Description
QFFORD1	2015–2024 Ford F-150 PPV, 2022–2024 Ford F-150 Lightning, 2017–2024 Ford F-250/F-350 Super Duty, 2017–2024 Ford F-450/F-550, 2018–2024 Ford F-600, Black Powder-Coated Aluminum Housing*
QFFORD1W	2015–2024 Ford F-150 PPV, 2022–2024 Ford F-150 Lightning, 2017–2024 Ford F-250/F-350 Super Duty, 2017–2024 Ford F-450/F-550, 2018–2024 Ford F-600, White Powder-Coated Aluminum Housing*
QFFORD1S	2015–2024 Ford F-150 PPV, 2022–2024 Ford F-150 Lightning, 2017–2024 Ford F-250/F-350 Super Duty, 2017–2024 Ford F-450/F-550, 2018–2024 Ford F-600, Black Powder-Coated Steel Housing (Will Work with Magnetic Mount Lights)
QFFRD1SW	2015–2024 Ford F-150 PPV, 2022–2024 Ford F-150 Lightning, 2017–2024 Ford F-250/F-350 Super Duty, 2017–2024 Ford F-450/F-550, 2018–2024 Ford F-600, White Powder-Coated Steel Housing (Will Work with Magnetic Mount Lights)
QFGM2	2019–2024 Chevy Silverado 1500 with Spoiler, Black Powder-Coated Aluminum Housing*
QFGM2W	2019–2024 Chevy Silverado 1500 with Spoiler, White Powder-Coated Aluminum Housing*
QFGM2S	2019–2024 Chevy Silverado 1500 with Spoiler, Black Powder-Coated Steel Housing (Will Work with Magnetic Mount Lights)
QFGM2SW	2019–2024 Chevy Silverado 1500 with Spoiler, White Powder-Coated Steel Housing (Will Work with Magnetic Mount Lights)
QFRAM2	2019–2021 Ram 1500 Classic, 2022–2024 Ram 2500/3500, Black Powder-Coated Aluminum Housing*
QFRAM2W	2019–2021 Ram 1500 Classic, 2022–2024 Ram 2500/3500, White Powder-Coated Aluminum Housing*
QFRAM2S	2019–2021 Ram 1500 Classic, 2022–2024 Ram 2500/3500, Black Powder-Coated Steel Housing (Will Work with Magnetic Mount Lights)
QFRAM2SW	2019–2021 Ram 1500 Classic, 2022–2024 Ram 2500/3500, White Powder-Coated Steel Housing (Will Work with Magnetic Mount Lights)

*Note: Aluminum housings are not for use with magnetic mount lights

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2025-2026

WHELEN ENGINEERING
COMPANY, INC.

AMBER ESSENTIALS

PROFESSIONAL WARNING AND LIGHTING

A guide to Whelen's warning and lighting products

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