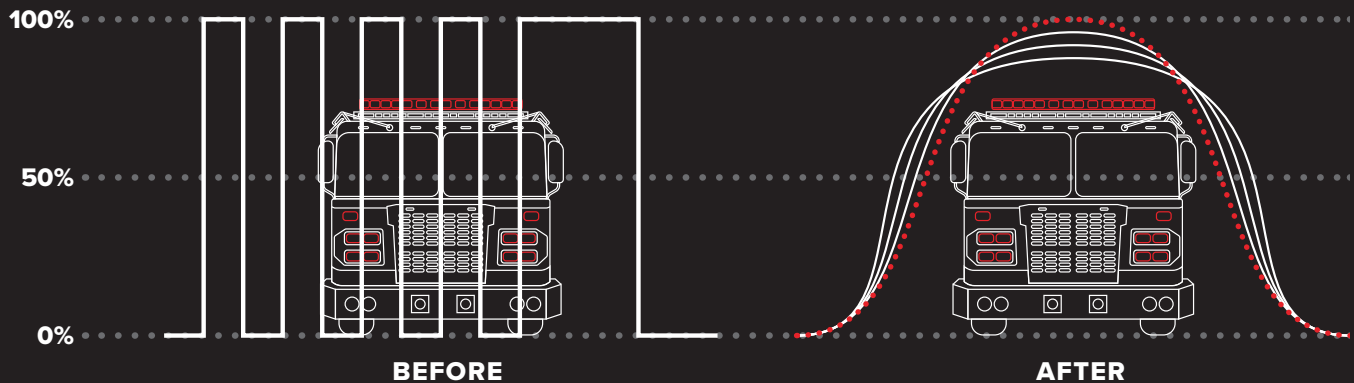# DVI™
ENABLED
DYNAMIC VARIABLE INTENSITY™

WHELEN®

THE FUTURE OF ENHANCED NIGHTTIME SAFETY IS HERE

Dynamic Variable Intensity™ flash patterns are designed to create a calm warning environment and advanced level of safety at nighttime emergency scenes – while meeting NFPA standards when properly configured.

DVI™ patterns gradually increase and decrease warning light intensity, better conveying visual information to approaching motorists at night. These patterns clearly indicate when an emergency vehicle is parked, improving their ability to navigate around an emergency scene safely.

100%

50%

0%

BEFORE

AFTER

DVI
ENABLED

WHELEN

ENGINEERED BY
FIRST RESPONDERS

Whelen first introduced the concept of nighttime dimming at the 2019 FDIC conference.

As LED technology continuously advanced, a high intensity multi-flash light output proved essential to draw the maximum amount of attention to emergency warning vehicles in daylight response mode.

At nighttime scenes, the rapid on-and-off of LED warning lights did not offer the same daylight benefits that users needed. It became clear that adjustments were needed for day and night versions — not just in intensity, but also in pattern.

At Whelen, our values and passion make us who we are. Many of our engineers have firsthand experience in the fire industry. They drive us to create products and innovations the way no one else can. Their expertise helped us engineer this solution for nighttime emergency scenes.

DVI ENABLED | WHELEN
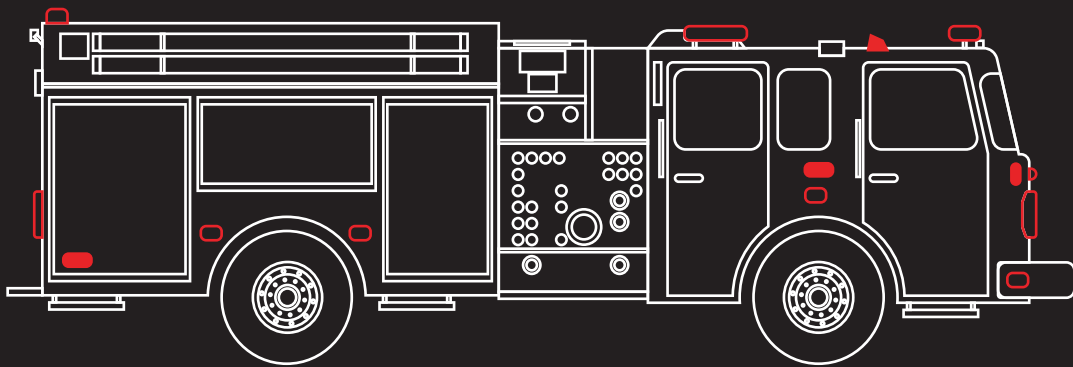
DVI™ ENABLED PRODUCTS

DVI

DVI enabled products elevate our most premium products to a new level of nighttime safety.

Contact your regional Whelen Authorized Managing Sales Representative (AMSR) to add nighttime dimming with DVI and confirm your enhanced lighting package meets NFPA standards.

- These products operate identically to their current models, for easy and familiar installation
- DVI mode as a default pattern
- DVI enabled products integrate seamlessly into an OEM's low intensity wire harness
- Automate DVI by connecting a Whelen LCPHOTO to the low intensity wire
- When properly configured, these DVI Enabled products can meet NFPA 1901 and 1906 standards

DVI ENABLED | **WHELEN®**

DVI™ Enabled products come with a Lifetime Warranty.

FREEDOM® IV
WECANX®

Whelen's Freedom® IV Series features advanced Linear Super-LED® optics and 360° of contiguous light.

- DVI™ Enabled - DVI patterns gradually increase and decrease warning light intensity, better conveying visual information to approaching motorists at night while meeting NFPA standards
- Linear Super-LED® technology
- Full length WeCanX Freedom IV lightbars are DVI Enabled
- WeCanX NFPA Freedom IV lightbars use an 18 input WeCanX Control Point – converts to a simple 12 volt activated product with Low Intensity wire
- SOLO™, DUO™, or DYAD™ technology
- Advanced Thermal Design reduces the stress on LEDs during extended dwell time
- Aluminum top repels hail and other environmental damages
- Center dividers with Liquid Injection Molded seals protect internal components from water infiltration

- Default Patterns:
  - High Intensity – SignalAlert™ 75
  - Low Intensity – DVI 75
- One piece UNI-DOME construction with a single sealing point assures lightbar integrity in all weather conditions
- Microprocessor Controlled
- Extruded aluminum platform for long life dependability
- Hard-coated lenses minimize environmental damage from sand, salt, sun, and road chemicals
- Clear outer domes with clear dividers
- Color domes for center and end sections with optional alley window
- Includes 17' passenger side cable
- Lifetime Warranty

SPECS
- 12 VDC
- Amps:
  - High Intensity – 1.68 Amp (peak) and 0.67 Amp (average) per corner
  - High Intensity – 1.25 Amp (peak) and 0.50 Amp (average) per directional
- Dimensions without mounting feet: 3.75" (95mm) H, 12.5" (318mm) W

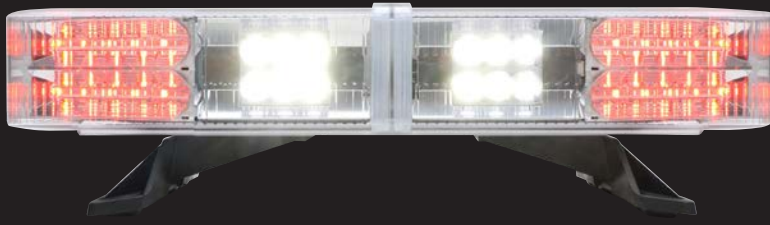## CERTIFICATIONS
- SAE Class 1 Certified
- NFPA 1901/1906*

* When apparatus is appropriately configured as listed in the applicable standard.

For additional details, please visit www.whelen.com

Download WeCad™ for models and options whelen.com/software-downloads

DVI ENABLED | WHELEN | LIFETIME WARRANTY

MINI FREEDOM® IV WECANX®

A compact version of the high-performance Freedom® IV

- Linear Super-LED® technology
- WeCanX Freedom IV Mini lightbars use an 18 input WeCanX Control Point – converts to a simple 12 volt activated product with Low Intensity wire
- Extruded aluminum platform for long life dependability
- Hard-coated lenses minimize environmental damage from sand, salt, sun, and road chemicals
- Color filters available for full customization
- Lifetime Warranty

SPECS
- 12 VDC
- Amps: 9 Amps (average)

CERTIFICATIONS
- SAE Class 1 Certified
- NFPA 1901/1906*

* When apparatus is appropriately configured as listed in the applicable standard.

For additional details, please visit www.whelen.com

Download WeCad™ for models and options whelen.com/software-downloads
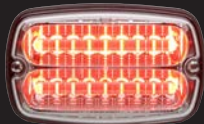
DVI ENABLED | WHELEN | LIFETIME WARRANTY

|M SERIES

With a unique lens shape and patented Linear-LED® designed reflector assembly, M Series lightheads are completely illuminated for unmatched high intensity warning and low current consumption.
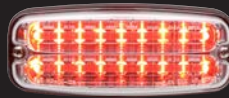
- DVI™ Enabled - DVI patterns gradually increase and decrease warning light intensity, better conveying visual information to approaching motorists at night while meeting NFPA standards
- Hard-coated lenses minimize UV damage and resist scratches
- Available with clear or color lenses
- Conformal coated electronics
- Full reverse polarity protection

- Default Patterns:
  - High Intensity – SignalAlert™ 75
  - Low Intensity – DVI 75
- Available in single color models
- Surface mounts via two screws for easy installation
- A variety of mounting brackets and optional Chrome or Black flanges are available
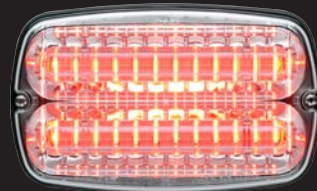- Lifetime Warranty

M4

M6

M7

M9

For additional details, please visit www.whelen.com.

DVI ENABLED

WHELEN

LIFETIME WARRANTY

M9

M9RC

AMPS
- Simultaneous: 3.0 Amps (peak), 1.2 Amps (average)
- Alternating: 1.5 Amps (peak), .6 Amps (average)

DIMENSIONS
- M9 Standard: 6.5" (165mm) H x 10.4" (263mm) W x 1.4" (35mm) D

CERTIFICATIONS
- SAE Class 1 (warning)
- KKK-1822F *
- NFPA 1901/1906 *
- NFPA 1917 *

* When apparatus is appropriately configured as listed in the applicable standard.

FLASH PATTERNS
- Single color: 159 Scan-Lock™ flash patterns

MODEL	TYPE	COLOR	LENS	AMP DRAW
M9 SERIES WITH INTERNAL FLASHER & SYNCHRONIZE FEATURE				
M9*	Warning	A, B, R, W	Color	Simultaneous: 3.0 peak, 1.2 average
M9*C		A, B, R	Clear	Alternating: 1.5 peak, 0.6 average

DVI ENABLED | WHELEN | LIFETIME WARRANTY

M7

M7RC

M7A

CERTIFICATIONS
- SAE Class 1 (warning)
- KKK-1822F*
- NFPA 1901/1906*
- NFPA 1917*

* When apparatus is appropriately configured as listed in the applicable standard.

FLASH PATTERNS
- Single color:
  159 Scan-Lock™ flash patterns

WARNING LIGHTS AMPS
- Simultaneous: 2.2 Amps (peak), 0.9 Amps (average)
- Alternating: 1.1 Amps (peak), 0.45 Amps (average)

DIMENSIONS
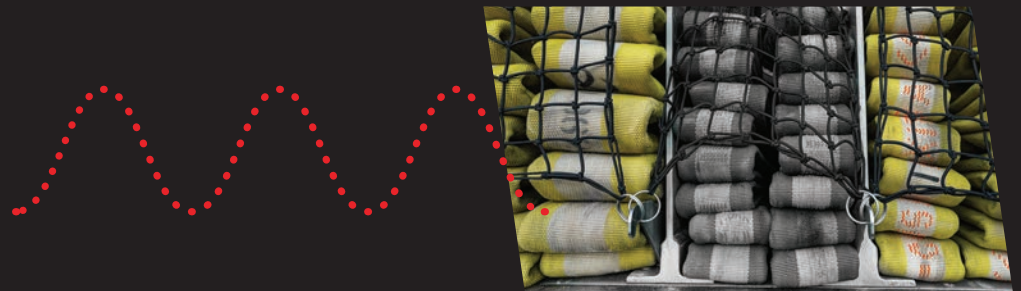- Size: 3.4" (86mm) H x 7.6" (194mm) W x 1.4" (35mm) D

MODEL	TYPE	COLOR	LENS	AMP DRAW
M7 SERIES WITH INTERNAL FLASHER & SYNCHRONIZE FEATURE				
M7*	Warning	A, B, R, W	Color	Simultaneous: 2.2 peak, 0.9 average
M7*C		A, B, R	Clear	Alternating: 1.1 peak, 0.45 average

|M6

M6RC

M6AC

CERTIFICATIONS
- SAE Class 1 (warning)
- KKK-1822F*
- NFPA 1901/1906*
- NFPA 1917*

* When apparatus is appropriately
 configured as listed in the
 applicable standard.

FLASH PATTERNS
- Single color:
 159 Scan-Lock™ flash patterns

AMPS
- Simultaneous: 2.2 Amps (peak),
 0.9 Amps (average)
- Alternating: 1.1 Amps (peak),
 0.45 Amps (average)

DIMENSIONS
- M6 Standard: 4.3" (109mm) H x
 6.7" (109mm) W x 1.4" (35mm) D

MODEL	TYPE	COLOR	LENS	AMP DRAW
M6 SERIES WITH INTERNAL FLASHER & SYNCHRONIZE FEATURE				
M6*	Warning	A, B, R, W	Color	Simultaneous: 2.2 peak, 0.9 average
M6*C		A, B, R	Clear	Alternating: 1.1 peak, 0.45 average

DVi ENABLED

WHELEN

LIFETIME WARRANTY

M4RC

M4

CERTIFICATIONS
- SAE Class 1 (warning)
- KKK-1822F*
- NFPA 1901/1906*
- NFPA 1917*

* When apparatus is appropriately configured as listed in the applicable standard.

FLASH PATTERNS
- Single color:
  125 Scan-Lock™ flash patterns

DIMENSIONS
- M4 Standard: 3.4″ (86mm) H x 5.5″ (139mm) W x 1.4″ (35mm) D

AMPS
- Simultaneous: 1.5 Amp (peak), 0.6 Amp (average)
- Alternating: 0.75 Amp (peak), 0.3 Amp (average)

MODEL	TYPE	COLOR	LENS	AMP DRAW
M4 SERIES WITH INTERNAL FLASHER & SYNCHRONIZE FEATURE				
M4*	Warning	A, B, R, W	Color	Simultaneous & Low Intensity: 1.5 peak, 0.6 average
M4*C		A, B, R	Clear	Alternating: 0.75 peak, 0.3 average

L31
SERIES

L31HRFN

- DVI™ Enabled - DVI patterns gradually increase and decrease warning light intensity, better conveying visual information to approaching motorists at night while meeting NFPA standards
- Powder-coated cast aluminum base
- Adjustable High Intensity patterns and Low Intensity patterns
- Default Patterns:
    - High Intensity – SignalAlert™ 75
    - Low Intensity – DVI 75

PERMANENT MOUNT MODELS
- 28 Scan-Lock™ flash patterns including 4 simulated rotating patterns
- Alternately or simultaneously flash multiple patterns with up to eight Whelen Super-LED® beacons

For additional details, please visit www.whelen.com.

- Conformal coated electronics
- Full reverse polarity protection
- Hard-coated domes resist environmental damage from sand, sun, salt, and road chemicals
- Available in permanent, magnetic, or magnetic/suction mount models
- Rated for thousands of hours of use
- Lifetime Warranty

SPECS
- Meets NFPA Zone C Upper requirements (L31HRFN Red)
- 12 VDC
- Amps: 4 Amp (peak), 1.6 Amp (average)
- Dimensions: 4" (102mm) H x 7-3/16" (182mm) Dia.

L31H*F	Amber, Blue, Red, or White, permanent mount, high dome
L31HRFN	Red, permanent mount, high dome

DVI ENABLED | WHELEN | LIFETIME WARRANTY

MICRO
FREEDOM™

- DVI™ Enabled - DVI patterns gradually increase and decrease warning light intensity, better conveying visual information to approaching motorists at night while meeting NFPA standards
- Heavy-duty aluminum frame designed for tailboard mounting
- 240° light output provides Zone B, C, and D light coverage
- Built-in flasher

- Default Patterns:
  - High Intensity – SignalAlert™ 75
  - Low Intensity – DVI 75
- 9 Scan-Lock™ flash patterns
- Hard-coated lenses resist environmental damage from sand, sun, salt, and road chemicals
- Includes a 20' cable
- Lifetime Warranty

SPECS
- 12 VDC
- Amps: 3.2 Amps
- Dimensions: 0.75" (95mm) H x 8" (203mm) W x 10" (254mm) D

CERTIFICATIONS
- SAE Class 1 (warning)
- KKK-1822F*
- NFPA 1901/1906*
- NFPA 1917*

* When apparatus is appropriately configured as listed in the applicable standard.

MCFLED2*	Micro Freedom, Blue, Red and/or Amber

LIFETIME WARRANTY

AUTO
DIMMING
PHOTOCELL

- Ambient light sensor that detects if it is day or night – 50 lux switch level
- Automate DVI by connecting the auto dimming photocell to the low intensity wire on DVI enabled products - connects to 25 low intensity products

LCPHOTO	Logic Level Photocell

DVI ENABLED

WHELEN

DVI™

DYNAMIC VARIABLE INTENSITY™

MANUFACTURED IN AMERICA