

# FREEDOM SERIES



WOODWAY manufacture under licence the WHELEN FREEDOM lightbar to comply with European regulations and provide non WHELEN options required by the UK and European market. This includes bespoke lengths, lighting configurations and e11 compliance. Used extensively by the professional service such as Fire Authorities and the Highways Agency, all FREEDOM lightbars have Edge® performance and reliability and are made for the rough treatment and long hours that these services demand. The FREEDOM Lightbar is available in 4 variants:

## FE 'ECONOMY' SERIES:

Economy Series lightbars feature 4 standard Super-LED corner modules with simple all bar operation control. Optional halogen alley, spot, 'E' approved brake/tail/turn lights & directional 4 or 12 Super-LED modules. Ideal for 'amber' users or customers who require minimal light head selection options. This series of FREEDOM lightbars is used extensively on Fire Appliance and fitted with the optional 100W Lo-Pro speaker. The lightbar is often referred to as the standard Woodway 'Fire Buy' lightbar.

## FL SERIES:

The most popular model with low current control and 4 standard Super-LED corner modules. Up to an additional 12 Super-LED modules and 4 halogen lights may be added. Other popular options include illuminated signs, steady burn 'GATSO' speed camera lights and 8 or 16 character 'MESSENGER' variable LED message displays. Smaller length lightbars often use 'duplex' light head modules that are split colour allowing more flexibility in the choice of directional warning light options within a limited length lightbar.

## FV SERIES: WeCAN

The High Performance, Super-LED® lightbar with a wide range of options. An external interface unit, the WeCAN® Electronic Control Module (ECM), communicates all lightbar operating functions via a 2 conductor data cable. This small cable provides easier overall wiring and lightbar installation. Up to eighteen different programmed warning configurations can be operated using customer supplied switching.

## FREEDOM FX SERIES:

Extended corner modules with split colour upper & lower levels. Upper and lower lightbar levels have independent control allowing split colour lightbar configurations. Ideal for dual purpose vehicles required to show either blue or amber lighting, for example a Fire Authority workshop vehicles that will normally use amber lighting but may require occasional use of blue lighting to move through traffic when delivering fuel to Fire Vehicles.



Available in Red, Amber  
Blue and White



**WOODWAY®**  
Woodway Engineering Limited



The licensed manufacturer for  
European Certified  
**WHELEN®**  
products

LED Lightbars

12  
VDC

24  
VDC



5  
YEAR  
WARRANTY

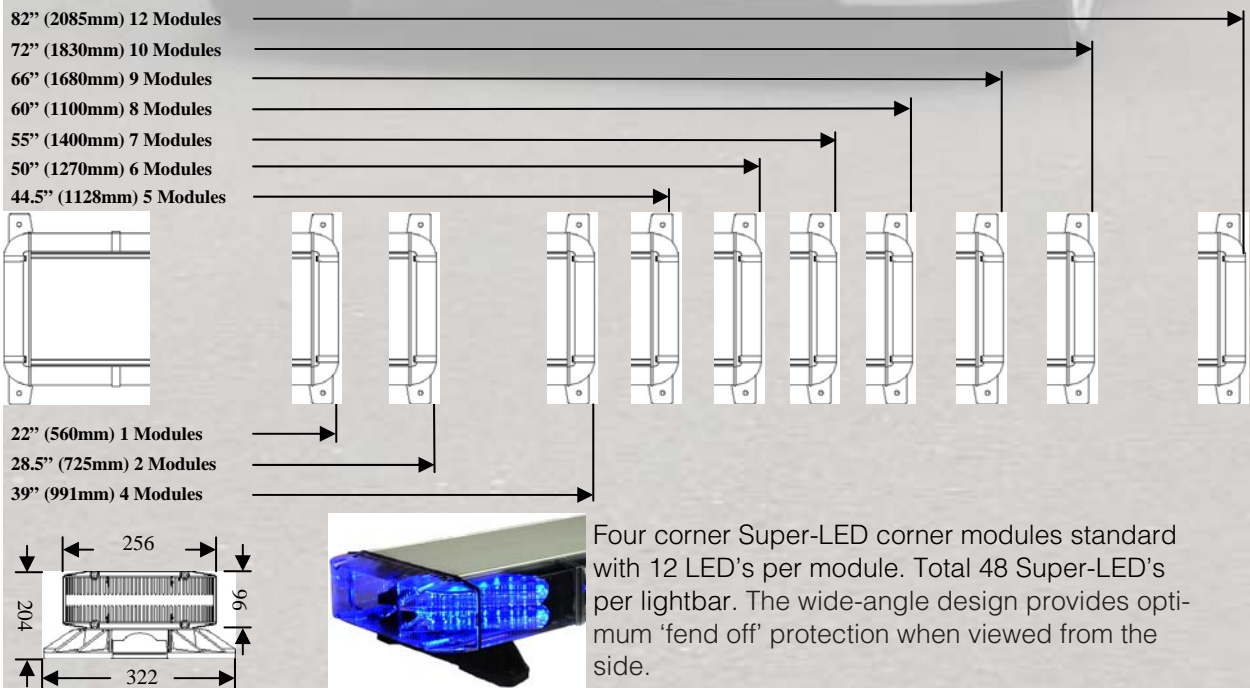
# FREEDOM SERIES

## STANDARD FEATURES - ALL LIGHTBARS VARIANTS:

- State-of-the-art optics and the latest generation Super-LED technology with a choice of clear or coloured outer lenses.
- Built on an extruded aluminium chassis that provides optimum shock protection, superb strength and stability. The modular construction allows for ease of maintenance and customer upgrading. A wide mounting footprint provides greater stability & weight distribution on the thinner roof construction common on today's vehicles.
- Four standard lengths: 39", 44", 50" & 55". Custom lengths available: 60", 66", 72", 77", 82" & 88"
- Base lightbar contains four corner Linear12 Super-LED modules. The wide-angle design provides optimum 'fend off' protection when viewed from the side.
- Standard lightbar with 4 corner Linear12 Super-LED modules draws only 3.2 amps.
- Each Super-LED light head is driven by an all electronic flasher that provides proper input power and choice of flash patterns. You are assured of equal light intensity from each light head through the voltage range of 10-16 VDC on 12V vehicles and 20 - 28 VDC on 24V vehicles.
- Pre-wired with 4.5m cable.
- Supplied as standard with polycarbonate permanent mounting feet. Various stainless steel straps to suit European cars available. High rise mounting feet and bespoke mountings available.
- e11 marked by WOODWAY and NPIA AES Specification 5, Issue 10 Fully Compliant.
- Comprehensive WOODWAY 5 Year Warranty.

## LIGHTBAR LENGTHS & DIMENSIONS:

All Dimensions in mm



<b>12 VDC</b>	<b>24 VDC</b>	<b>e11</b> ✓	<b>NPIA</b> AES Spec 5 Issue 10 Fully Compliant ✓	<b>5 YEAR WARRANTY</b>
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The licensed manufacturer for  
European Certified  
**WHELEN**  
products



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# FREEDOM SERIES

LED Lightbars

## **FREEDOM ECONOMY FE SERIES:**

Standard features noted on page 2.

### Factory Installed Options:

- Halogen Alley & Spot Lights.
- Additional Red, Amber, Blue or White Linear4 or Linear12-LED modules.
- Illuminated or non illuminated signs.
- LED 'E' marked brake/tail/turn lights.
- Steady burn 'GATSO' light operates with 360 corners allowing speed cameras to capture a blue light confirming the vehicle was responding to an emergency.
- 8 or 16 character MESSENGER variable message display.
- Lo-Pro 100W speaker.

## **FREEDOM FL SERIES:**

Standard features noted on page 2 plus:

- Low current control with built in I/O control board that allows the addition of up to 12 Super-LED modules and 4 halogen lights.
- 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. Cruise light facility standard.

### Factory Installed Options as FE Series plus:

- Super-LED Alley & Spot Lights.
- Additional Red, Amber, Blue or White Linear12-LED modules (up to 12 modules), for a total of 16 Linear-LED modules. Split colour 'duplex' 6/6 modules optional.
- 5 or 6 Lamp Traffic Advisor, light modules may also be operated as independent flashing pairs when the Traffic Advisor feature is not required.
- Built in OPTI-LINK Receiver to simplify installation wiring.

## **FREEDOM FW SERIES: WeCAN**

Standard features noted on page 2 plus:

- Cruise Light control with virtually unlimited adjustable intensity levels.
- An external interface unit, the WeCan® Electronic Control Module (ECM), communicates all lightbar operating functions via a 2 conductor, 20 gauge cable. This small cable provides easier overall wiring and lightbar installation.
- Complete independent "On" or "Off" and independent flash pattern, plus phase control of each individual light head. Four phases for alternating, simultaneous and combo flash patterns.
- Up to eighteen different programmed warning configurations can be operated using customer supplied switching to each of the eighteen input wires to the ECM. (A default program pre-installed).
- All functions are programmed easily by a computer 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.

Factory Installed Options as FL Series with the exception of:

- Built in OPTI-LINK Receiver.

## **FREEDOM FX SERIES:**

Standard features noted on page 2 plus:

- Extended corners with independent upper & lower level control.

Factory Installed Options as FE Series.



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products

# LED Lightbars

# FREEDOM SERIES

KEY FEATURES & OPTIONS STANDARD ✓ OPTIONAL ✓	<i>FE</i> <i>Economy</i>	<i>FL</i> <i>Low Current</i>	<i>FV</i> <b>WE CAN</b>	<i>FX</i> <i>Split Colour</i>
 Standard Corner Super-LED module. 12 LED's per corner.	✓	✓	✓	✗
 Extended Corner Super-LED module. 18 LED's per corner.	✗	✗	✗	✓
 FLH2CC Halogen Spot light.	✓	✓	✗	✓
 FLTDM6 Halogen Spot light.	✓	✓	✗	✓
 FLALY Halogen Alley light.	✓	✓	✗	✗
 FLAM6 Halogen MR16 Alley light.	✗	✗	✗	✓
 FXALF1D Super-LED Alley light.	✗	✓	✓	✓
 FXTLS1D Dual Super-LED LR11 Spot light.	✗	✓	✓	✗
 Duplex 6/6 Super-LED Linear12 light modules. 12 LED's per module.	✓	✓	✓	✓
 Split colour 6/6 Super-LED Linear12 light modules. 6 LED's per colour.	✓	✓	✓	✓
 ZB6200 LED Brake, Tail & Turn lights. 'E' Approved.	✓	✓	✓	✓
 SA40 Lo-Pro Speaker 100W.	✓	✓	✓	✓
 <b>POLICE</b> illuminated & non-illuminated signs.	✓	✓	✓	✓
 5 & 6 Lamp LED Traffic Advisor	✗	✓	✓	✗
 <b>MESSENGER</b> MESSENGER 8 & 16	✓	✓	✓	✓
 'GATSO' steady burn camera Super-LED lamp.	✓	✓	✓	✓
 Various mounting feet and straps.	✓	✓	✓	✓
 OPTI-LINK receiver pre installed into the lightbar.	✗	✓	✗	✗



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