



# AXIOS™

MODULAR LED  
LIGHTBAR SYSTEM



TOUGH. ADAPTABLE. JOB-READY.

## JUST LIKE YOU

The revolutionary Axios™ modular LED lightbar system takes safety and on-the-job performance to a new level. Choose from seven high-performance LED lighting options with exclusive DropLock™ technology that feature simple twist-lock placement virtually anywhere in the bar.

Backed by a 5-year warranty, it all adds up to a better lightbar without the wait.

### NO TOOLS COUNTLESS OPTIONS

Unlimited build options. More operational flexibility. More opportunity. The Axios system enables you to design, build, and deploy the ultimate warning light solution. No-tools convenience makes building, reconfiguring, or upgrading your lightbar fast and easy.

### 00-DAY LEAD TIME

Configure Axios on the spot to meet your exact needs and put your vehicle to work the same day. No more waiting on factory schedules and shipping times. Experience on-site, on-demand assembly today at your local ECCO certified Axios Partner.



## **MATERIALS + SCIENCE = RESULTS**

Axios combines advanced materials, cutting edge design, and innovative product engineering from ECCO's R&D headquarters to create the world's first modular LED lightbar system. Patents pending.

## **PROVEN RELIABLE**

Axios, like all ECCO products, is built to a higher standard – ours. We abuse Axios in our labs and in the most extreme real world environments so you can confidently depend on it in the harshest of conditions.



## LEAD TIME

Constructed from premium grade materials, each Axios chassis features a central control board that distributes power and control signals via tracks inside the three DropLock power rails spanning the length of the lightbar. A built-in locking mechanism allows warning and scene light modules to be securely positioned (or repositioned) quickly and effortlessly, without wires or fasteners.



**SOLID STATE**  
12-24 VDC, 100% LED Semiconductor electronics provide over 50,000 hours of maintenance-free operation



**ALUMINUM**  
Lightweight, aircraft grade coated aluminum chassis offers exceptional rigidity and protection against the elements



**DROPLock MODULES**  
Patented design allows easy module placement anywhere on the power rails, creating unlimited configurations



**DROPLock POWER RAILS**  
Patented power rail circuitry distributes DC power and electronic control signals throughout the lightbar

BUILD IT UP

LIGHT IT UP



**POLYCARBONATE**

Impact resistant and UV stable lens, chassis shroud, adjustable mounting feet, and module housings

ONE SYSTEM

COUNTLESS OPTIONS

07  
MODULES

Mission-specific LED warning and auxiliary lighting modules allow Axios operators to alert the public, direct traffic and illuminate the scene. Choose from three types of warning modules and a variety of options including scene lighting and stop-tail-indicators to suit your specific application. Featuring the most durable materials, advanced optical design, and the latest high-intensity LEDs, each Axios module is engineered to the highest performance standards.



**DIRECTIONAL**  
EZ1401X | 12-24 VDC | 0.9 Amps  
Amber, Blue, Clear, Green, or Red

Six high-performance 3-watt LEDs and wide-angle TIR optics coupled with the ability to adjust the output direction of these lights ensures full 360° SAE Class I, California Title 13, and ECE R65 compliance. Each module provides a uniform 120° horizontal beam and can be positioned anywhere along the power rail, in the front, rear, or corners (at 45°).



**BEACON**  
EZ1402X | 12-24 VDC | 1.0 Amps  
Amber, Blue, Clear, Green, or Red

14 high-performance 3-watt LEDs combined with a reflective internal housing and lenticular optics deliver full 360° warning in a single unit. The beacon module can be programmed to flash in unison with directional warning modules and also includes a simulated rotating warning signal. SAE Class I, California Title 13, and ECE R65 compliant.



**SAFETY DIRECTOR™**  
EZ1414 | 12-24 VDC | 2.5 Amps  
Amber

The LED Safety Director module is a self-contained warning system designed to direct traffic approaching from the rear of a stationary vehicle. Featuring a total of thirty-six 3-watt LEDs and nine flash patterns, this compact light-stick is mounted outside the lightbar enclosure to maximize options within the bar and is operated via the keypad controller independently from the internal warning modules. SAE Class I.



**WORKLAMP**  
EZ1403WL | 12-24 VDC | 0.9 Amps

These flood beam modules feature four 3-watt LEDs that project 900 lumens of bright white light to illuminate your work scene after nightfall. Worklamp modules can be mounted either front or rear facing, anywhere along the length of the lightbar.



**ALLEY LIGHT**  
EZ1403AL | 12-24 VDC | 0.9 Amps

Utilizing the same 900 lumen, flood beam design as the worklamp module, these lights are specifically intended to shine light to the sides of the vehicle, ideal for illuminating alleyways, finding pallet locations, or identifying building numbers in dark conditions.



**STOP-TAIL-INDICATOR**  
EZ1404 | 12-24 VDC | 0.3 Amps

Stop-Tail-Indicator modules operate in conjunction with the vehicles tail, brake, and direction indicator lights to provide supplemental, high level warning of vehicle movements, especially useful for dangerous on-highway applications or where your application may obscure factory installed vehicle lighting. ECE R6 & R7 compliant.



**CENTER ILLUMINATION**  
EZ1411-48, 54, 60, 72 | 12-24 VDC | 0.3-1.4 Amps

Using an opal colored lens and LED strip lighting, the center illumination module provides a soft-glow cruise light option. No other modules are needed in the center section of the lightbar. Vinyl lettering can also be applied to provide backlit signage.

ABSOLUTE

CONTROL



FUNCTIONS

- Tactile switches
- Flash pattern selection/memory
- Flash pattern feedback
- Hi/lo intensity control
- Cruise mode
- Stop/resume
- Convenient mounting options

**Optimum Awareness.** The included **EZ1405** keypad controller operates all nine functions of the lightbar and features soft-glow backlit switches as well as visual indicators that temporarily simulate the selected flash pattern. Axios operators know exactly what the lightbar is doing at any moment, without being distracted. The controller can even remember and resume previously activated functions for added convenience. Five cable routing options and three mounting options ensure clean and tidy installation in any cab.



**ALLEY LEFT**  
Press to illuminate left alley light.

**FLASH PATTERN INDICATORS**  
One LED per corner temporarily mimicks warning flash patterns.

**CRUISE**  
Press to illuminate all beacon/directional modules (steady burn).

**DAY/NIGHT MODE**  
When active, it provides backlighting to keypad and lowers intensity of directional modules in the bar.

**FORWARD WORKLAMP**  
Press to illuminate forward worklamps.

**AUXILIARY**  
Control any auxiliary device (max 20 amp, via relay)

**FLASH PATTERN SELECT**  
Press to cycle through warning flash patterns. The keypad will remember the pattern used and store it to the active preset.

**ALLEY RIGHT**  
Press to illuminate right alley light.

**ON/OFF SAFETY DIRECTOR (if equipped)**  
Will resume last pattern selected.

**SAFETY DIRECTOR FLASH PATTERN INDICATORS**  
The 6 LED indicator windows will mimic the flash pattern for realtime feedback.

**REAR WORKLAMP**  
Press to illuminate rear worklamps.

**POWER**  
Press to cycle through three programmable flash pattern presets. Hold button down to shut down all functions. Press again to resume.

**SAFETY DIRECTOR PATTERN SELECT**  
Press to cycle through Safety Director patterns.





## STANDARD CONFIGURATIONS



Suitable for any application where width of vehicle warning is desired, Axios is available in five chassis lengths to suit any specific need. Choose from seven standard configurations or design one yourself in no time!

**39"** Ideal for use on small vans and other light commercial vehicles. This compact general purpose warning solution is ideal for professionals from plumbers to pilot car operators.

**48"** The perfect length for mid-size vans and pick-ups with plenty of space for auxiliary options.

**54"** The optimum length for full-size vans, pick-ups and smaller tow trucks. This is our most popular bar length.

**60"** Ideal for large tow trucks, plows, sweepers, and other heavy road vehicles. The 30" mid-section provides ample room for supplemental warning and auxiliary lighting.

**72"** Designed for use on the largest commercial vehicles including plows, semi-tractors, and other Class 8 vocational trucks. This bar is so spacious the potential configurations of warning and productivity modules are virtually endless.

## UNLIMITED POSSIBILITIES



Need something a little different? Contact your local Axios dealer or ECCO for details on how to make your custom lightbar design a reality.

All standard configurations illuminate amber.

CERTIFIED

**WORRY-FREE**

### CERTIFICATIONS

**Beacons & Directionals:** SAE J845 Class I, California Title 13, ECE Regulation 65

**Safety Directors:** SAE J595 Class I

**Stop-Tail-Indicators:** ECE Regulation 6 & 7

**Lightbar:** ECE Reg 10

Compliance with SAE Class I, California Title 13 and ECE Regulation 65 is dependent on both the specific configuration of warning modules within the lightbar and the selected flash pattern.



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## WARNING MODULE FLASH PATTERNS



#	Description	FPM	SAE	T13	R65*
1	Steady Burn	-			
2	CA Title 13 Double	75	✓	✓	
3	CA Title 13 Slow Quad	65	✓	✓	
4	CA Title 13 Slow Double	65	✓	✓	
5	CA Title 13 Quint	75	✓	✓	
6	Pulse8	75	✓		
7	R65 Single	120	✓		✓
8	R65 Double	120	✓		✓
9	R65 Triple	120	✓		✓
10	R65 Quad	120	✓		✓
11	R65 Burst	120	✓		✓
12	R65 Single Side-to-Side	120	✓		✓
13	R65 Double Side-to-Side	120	✓		✓
14	R65 Triple Side-to-Side	120	✓		✓
15	R65 Quad Side-to-Side	120	✓		✓
16	R65 Burst Side-to-Side	120	✓		✓
17	Quad Alternate Side-to-Side	75	✓		
18	Quad Cross Alternate	75	✓		
19	Double Alternate Side-to-Side	75	✓		
20	Double Cross Alternate	75	✓		
21	Quint Alternate Side-to-Side	75	✓		
22	Quint Cross Alternate	75	✓		
23	Quad Alternate Side-to-Side Front	75	✓		
24	Quad Alternate Side-to-Side Rear	75	✓		
25	Double Alternate Side-to-Side Front	75	✓		
26	Double Alternate Side-to-Side Rear	75	✓		
27	Quint Alternate Side-to-Side Front	75	✓		
28	Quint Alternate Side-to-Side Rear	75	✓		
29	Cycle All (2, 3, 5, 6, 13, 15, 16)	-	✓		

### ROTATE MODE (Beacons Only)

#	Description	FPM	SAE	T13	R65*
1	R65 Rotate	120	✓		✓

### FLASH MODE (Safety Directors Only)

#	Description	SAE
1	Left	
2	Left Solid	
3	Right	
4	Right Solid	
5	Center Out	
6	Center Out Solid	
7	Wig Wag	
8	Alternating	✓
9	Alternating Quad Flash	

\*All R65 flash patterns meet ECE Regulation 65 Class II with the exception of rotate mode which meets Class I only.



HASSLE-FREE

## INSTALLATION

Each Axios lightbar is supplied with a pair of tilt adjustable mounting feet and features length-of-the-bar mounting tracks that make installation easy for any roof or flat mounting surface. ECCO also offers strap mounting kits for the most popular work vehicles as well as headache rack mounting brackets.

In addition, Axios features CAN bus technology for fast, easy wiring. The lightbar is inoperable without the interior mounted junction box which provides both lightbar theft protection and allows easy routing of cable from the vehicle wiring loom to the lightbar and controller. If discrete wiring via switches is preferred, the junction box features separate control inputs and an auxiliary output for additional equipment that can also be operated via the controller (20A max).

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## STRAP MOUNTING KITS

Make	Type	Year	Part #
Ford	Super Duty Truck	2010-2015	A1026RMK
Ford	Truck, 1/2T	2010-2015	A1025RMK
Ford	Truck, 1/2T	2004-2009	A1010RMK
Ford	Truck, 3/4-1T	1999-2009	A1012RMK
Ford	Crown Victoria	1998-2013	A1013RMK
Ford	Truck Crew Cab, 1/2T	1997	A1014RMK
Dodge	Charger	2011-2015	A1031RMK
Dodge	Charger	2007-2010	A1029RMK
Dodge	Truck, 1/2-1T	2002-2013	A1011RMK
GM	Truck, 1/2-1T	2015	A1025RMK
GM	Truck, 1/2-1T	2010-2014	A1027RMK
GM	Truck, 1/2-1T	1999-2009	A1011RMK
	Headache Rack Mounting Brackets		A1401RMK
	Keypad Controller Suction Cup		EZ1415

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