FEDERAL SIGNAL

2016-2017 FORD INTERCEPTOR UTILITY
Federal Signal Lights and Sirens Guide

Federal Signal is The Driving Force behind technologies to provide safe and reliable emergency warning for law enforcement. It is our commitment to engineer the highest performing and most reliable products for your emergency vehicle.

Integrity

Lightbars

Integrity®
Modern low-profile, linear lightbar with SpectraLux multi-color LED technology

Valor®
Non-linear, low profile lightbar with Solaris LED technology for superior off-axis warning

Navigator®
A linear, high-profile LED lightbar, which uses both LED reflectors and LED rotators in one platform

Legend®
Traditional low-profile, linear lightbar built with the latest lighting technology

Vision® SLR
Non-linear lightbar with Solaris LED rotators to maximize light-output at intersection angles

Valor

Navigator

Legend

Vision SLR

① IMPAXX 6

② MicroPulse 6

③ **IMPAXX 6**

Interior and Exterior
Mount Warning Lights

IMPAXX® 6   ① **License Plate**   ③ **Rear Side Window** ④ **Push Bumper**

Six LED models feature SpectraLux multi-color technology and can operate independently or synchronized with their light heads

MicroPulse™ 6   ② **Headlight**

Available in three, six or twelve LED models in single or split color combinations

④ **IMPAXX 6**

① **MicroPulse Ultra**

Interior and Exterior Mount Warning Lights

MicroPulse™ Ultra   ① Rear Spoiler   ② Side Mirror   ③ Rear Hatch

Ultra low profile design available in three, six or twelve LEDs

MicroPulse™   ④ Hood

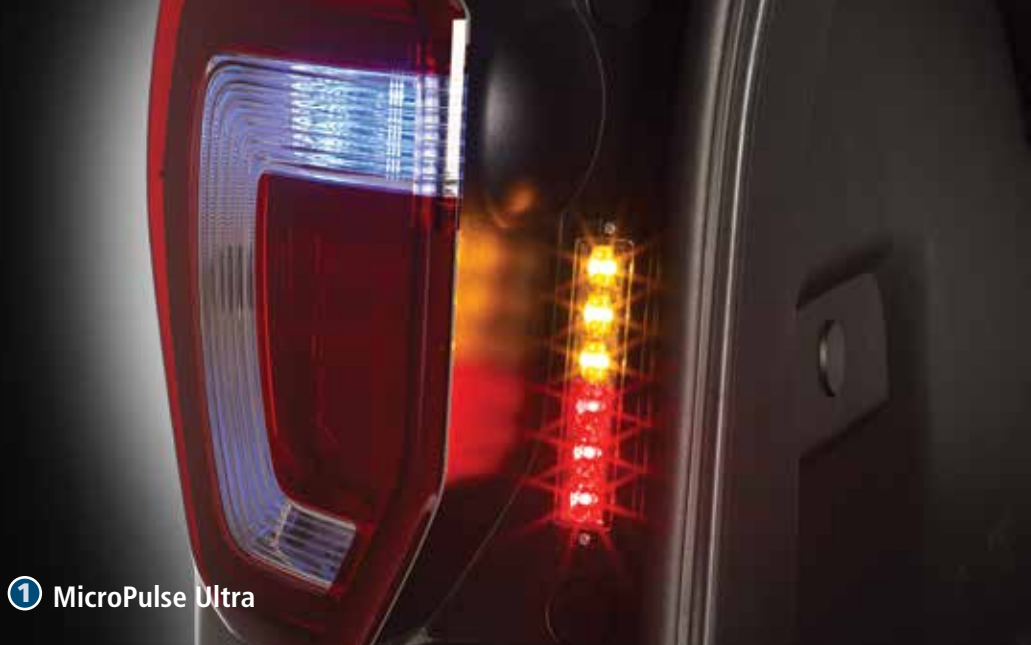Available in three, six or twelve LED models in single or split color combinations

② **MicroPulse Ultra**

③ MicroPulse Ultra

④ MicroPulse

① MicroPulse Ultra

Interior and Exterior Mount Warning Lights

MicroPulse™ Ultra   **①** Rear Hatch   **③** Side Mirror

Ultra low profile design available in three, six or twelve LEDs

CN SignalMaster™   **④** Back Windshield

Multi-color warning and directional light available in 4- and 8-head models

④ CN SignalMaster

② **MicroPulse Wide Angle**

③ **MicroPulse Ultra & Wide Angle**

Interior and Exterior
Mount Warning Lights

MicroPulse™ Wide Angle   **②** Fog Lamp   **③** Below Side Mirror

Nine LED design offers 180-degree light spread

Inline Corner LED   **⑤** Taillight

Two head Inline Corner LED system with 19 selectable flash patterns

Inline Corner LED

POLICE INTERC

① **SpectraLux ILS Low Profile**

② **SpectraLux ILS Low Profile**

Interior Mount Warning Lights

SpectraLux® ILS Low Profile   **①** & **②** **Front Headliner**

The slim-line, multi-color interior lighting system is ideal for undercover applications

Littlite®   **③** **Center Console**

Flexible gooseneck light will brighten up console and work area

SpectraLux® Viper® S2   **④** **Front and Rear Headliner**

Single and dual-head interior light with easy-to-select flash patterns

③ **Littlite**

④ **SpectraLux Viper S2**

DynaMax / ES100

Rumbler

Sirens and Speakers

DynaMax® / ES100

A slim and lightweight 100-watt speaker mounts easily into the grille

Rumbler®

Intersection Clearing System works with most sirens to create a vibrating tone you can feel

SmartSiren® Platinum

A rugged light and siren control head and re-defined amplifier relay unit

SmartSiren Platinum

Prisoner Transport Systems ① **Prisoner Transport**

Product offering includes vehicle specific polymer seats with officer safety belts, SUV rear partitions, floor pans, window guards, door panels, and electronics fold down cover

Push Bumper ② **PBX Push Bumper**

Vehicle specific Push bumpers, top channels, pit bars, and wing wraps are available

① **Prisoner Transport**

Ford Police Interceptor Utility

LIGHTBARS	Valor®	Integrity®	Vision® SLR	Legend®	LPX Serial	LPX Discrete	Navigator®
Recommended lengths (inches)	44, 51	44, 51	46, 53	24, 45, 53	45, 53	45, 53	45, 53
Non-Linear / V-Shape	●		●				
Low profile	●	●		●	●	●	
Available Dome Colors	Clear	Clear	A, B, C, G, R	A, B, C, R	A, B, C, R	A, B, C, R	A, B, C, R
Solaris® LED Reflectors	●	●	●	●	●	●	●
ROC (Reliable Onboard Circuitry™)	●	●		●	●	●	
FS Convergence Network	●	●	●	●	●		●
SpectraLux™ Multicolor LED	●	●	●				●
SLR (Solaris® LED Rotator)			●				●
HotFoot®	●	●	●	●			
LED Takedown and Alleys	●	●	●	●	●	●	●
LED SignalMaster™	●	●	●	●	●		●
LED Flood Lighting	●	●	●				●
Dimming	●	●	●	●	●		●
LED Warranty (years)	5	5	5	5	5	5	5
Online Configurator	●	●	●	●	●	●	●

Federal Signal Exclusive Technologies

SpectraLux®

SPECTRALUX™ multicolor LED technology provides the ability for a LED light head to change color while in operation. LEDs can change between Red, Blue, Amber or White through user-selected flash patterns.

Solaris®

SOLARIS® LED reflector technology is engineered to increase off-axis warning and maximize the LED light source to eliminate dark spots and distribute 360-degrees of light coverage.

SLR

SLR (SOLARIS® LED ROTATOR) design maximizes the LED light source for full light coverage. SLR rotators in the Vision SLR, provide rotating, oscillating, flashing and flood light functionality.

Convergence Network

FS CONVERGENCE NETWORK provides "plug-n-play" installation from Federal Signal's SmartSiren® Platinum, amplifier and controller, to our family of serial communication lightbars and SpectraLux ILS Interior Lighting System.

ROC

ROC (RELIABLE ONBOARD CIRCUITRY™) technology eliminates approximately 85% of the connection failure points found in a typical lightbar. Wires, connections, and assemblies are replaced by PCB assemblies — reducing labor repair time and increasing the road time for emergency vehicles.

HotFoot®

HOTFOOT® lighted mounting feet provide additional light through powerful Solaris LED reflectors that are built into the mounting system of the lightbar.

Federal Signal Lights and Sirens

SIRENS	SSP3000B	SSP2000B	PA640	650 Series	PA300	MS4000
FS Convergence Network	●	●				
Air Horn	●	●	●	●	●	●
PA (Public Address)	●	●	●	●	●	
Siren Tones	●	●	●	●	●	●
Remote Control Head	●	●		●		
Slide Switch	●	●	●			
Lighting Control	●	●	●	●		
SignalMaster™ Control	●	●				
Microphone	●	●	●	●	●	
Warranty (years)	5	3	3	3	3	3

EXTERIOR PERIMETER LIGHTS	IMPAXX®		MicroPulse™							
	IPX3	IPX6	MPS300U and MPS350	MPS600U	MPS620U	MPS1200U	MPS1220U	MPSW6	MPSW9	C Series
Solaris® LED Reflector Technology	●	●								
SpectraLux™ Multi-Color LED Technology		●								
Single Color	●	●	●	●		●		●	●	●
Multi-Color		●			●		●		●	
Split Color				●		●		●		●
Number of LEDs Determined by color combination	3	6,12,18	3	6	12	12	24	6	9, 18	6
Sync Flashing Capability	●	●	●	●	●	●	●	●	●	●
Clear Lens Available	●	●	●	●	●	●	●	●	●	●
Color Lens Available	●									
Warranty (years)	5	5	3	3	3	3	3	3	3	3

Federal Signal Lights

INTERIOR WARNING LIGHTS	SpectraLux® ILS Low Profile	SpectraLux® ILS Rear Deck	SpectraLux® Viper® S2	Viper® S2
Solaris® LED Reflector Technology	●	●	●	●
ROC (Reliable OnBoard Circuitry™)	●	●		
FS Convergence Network	●	●		
SpectraLux™ Multicolor LED Technology	●	●	●	
Discrete wired option	●		●	●
Single Color	●	●		●
Number of LEDs*	6, 12 or 18 per head	6, 12 or 18 per head	6, 12 or 18 per head	8 per head
LED Takedown	●		●	
LED SignalMaster™		●		
Flood Lighting	●			
Sync	●	●	●	●
Warranty (years)	5	5	5	5

* Number of LEDs determined by color combination

STICK LIGHTS	CN SignalMaster™	Latitude™ — Flashing	Latitude™ — SignalMaster™
Available Lengths (inches)	16 and 31	17, 24, and 32	24, 32 and 48
Number of Lightheads	4 and 8	4, 6, and 8	6 and 8
Number of LEDs per Lighthead*	6, 12, 18	3	3
Solaris® LED Reflectors	●	●	●
ROC (Reliable Onboard Circuitry™)	●	●	●
SpectraLux™ Multicolor LED	●		
FS Convergence Network	●		
8-wire SignalMaster™ control	●		
4-wire SignalMaster control			●
LED SignalMaster	●		●
LED Takedowns	●		
LED Flood Lighting	●		
Dimming	●		
Clear Lens Available	●	●	●
Color Lens Available			
LED Warranty (years)	5	5	5
Online configurator	●		

*Number of LEDs determined by color combinations

FEDERAL SIGNAL

THE DRIVING FORCE

BEHIND SAFE & RELIABLE EMERGENCY SOLUTIONS

Lights and Sirens

Federal Signal is driving technology to provide safe and reliable emergency warning for first responders. It is our commitment to engineer the most reliable and high-performing products for your emergency vehicle. With the innovation of the Solaris LED reflector, ROC (Reliable Onboard Circuitry), SpectraLux multicolor LED capability, and FS Convergence Network, Federal Signal is clearly leading the way in innovative lights and siren solutions.

AirEL Illumination

The AirEL system allows ground and aerial crews to establish identification of the specific vehicles through illuminated alphanumeric characters. AirEL utilizes proven electroluminescent technology. AirEL is comprised of alpha numeric characters, weather-proof housing pods and compact inverter.

Stinger® Spike System

Federal Signal is committed to producing quality, cost-effective tire deflation devices to assist law enforcement personnel in bringing pursuits to a safe and quick conclusion. We feel so strongly in the safety of law enforcement personnel and the public that we offer free Stinger Spike System training.

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Ford Police Interceptor Utility, 2016-2017

Model	Description
	Lightbar Mounts and other Roof-mounted kits
HKB-FPIU13-44	Hook required with hook-on mount, 44-, 45-, 46-inch bars, Ford Police Interceptor Utility 2013-2017
HKB-FPIU13B	Hook required with hook-on mount, 51- and 53-inch bars, Ford Police Interceptor Utility 2013-2017
Z865300717	Spacer kit for use when mounting external Opticom on Legend or Integrity lightbars
AELAD-ULP15	AirDek roof-mounting system, Ford Utility 2017
	Audible Warning Brackets
ESB-FPIU16	Bracket, combination ES100C and (2) IPX/MPS lights, Ford Police Interceptor Utility 2016-2017, not including Ecoboost models
ESB-FPIUND	"No Drill" Bracket kit for mounting ES100C using existing holes in the grille of Ford Utility 2016-2017
ESB-U	Bracket, Universal, Ford Police Interceptor Utility 2016-2017, models with or without Ecoboost
750501-10	Bracket, AS124, Ford Police Interceptor Utility 2016-2017
RB-FPIU16	Bracket, Rumbler mount, Ford Police Interceptor Utility 2016-2017
	Grille Light Brackets
IPX-GRL10	IMPAXX, pair of grille brackets, Ford Police Interceptor Utility 2016-2017, not including Ecoboost models
ESB-FPIU16	Bracket, combination ES100C and (2) IPX/MPS lights, Ford Police Interceptor Utility 2016-2017, not including Ecoboost models
SLB-002	Short L-bracket, CN SignalMaster in lower portion of grille, not including Ecoboost models
MPSC-(color)	A pair of MicroPulse C-Series lights will mount into the recessed area of the grille that Ford uses to accommodate grille lights
	License Plate Light Brackets and Push Bumper Light Brackets
IPX-LPH1	IPX3/IPX6/MPS300, generic high-side license plate holder with horizontal mount tab on each side
IPX-LPV1	IPX3/IPX6, flat surface license plate mount, various vehicles without recessed plate mounting locations
IPX-LPV2	Adjustable license plate mounting bracket kit for mounting a pair of LED lights
	Rear Side Window Light Brackets
IPX-RSW3	IPX3/IPX6, pair of rear side window mount brackets, Ford Police Interceptor Utility 2013-2017
VPX-SW	IPX6, pair of rear side window mount brackets, each bracket holds (2) lights
IPX-RSW4	Pair of brackets/covers to mount (1) MPS6U or (2) IPX3, IPX6, or MPS3U in cargo side window of Ford Utility 2016-2017
	Interior Front Headliner
SIFMS	SpectraLux ILS Low-Profile, 8-head Front Split, Center-focused style
SIFMP	SpectraLux ILS Low-Profile, 4-head Passenger-side only, Center-focused style
SIFZS	SpectraLux ILS Low-Proflie, 8-head Front Split, Off-Axis style
SIFZP	SpectraLux ILS Low-Profile, 4-head Passenger-side only, Off-axis style
350701-04	Viper S2 bracket, rear view mirror/headliner/single, Ford Interceptor Sedan and Utility 2013-2017
350701-05	Viper S2 bracket, rear view mirror/headliner/dual, Ford Interceptor Sedan and Utility 2013-2017
	Bottom of Rear Hatch
MicroPulse Ultra	MPS300U, MPS600U, and MPS620U lights will fit in this location on Ford Utility
	Interior Rear Headliner
CNSM-RBK1	Mount kit for installing 8-head CN SignalMaster in rear headliner of Ford Police Utility 2013-2017
SLB-002	Short L-bracket, CN SignalMaster or Latitude
MBK01	Bracket for mounting MB1 message board in rear headliner of Ford Utility 2016-2017

Model	Description
	Spoiler Brackets
MPSM6-FPIURS	MPS600 or MPS600U, rear spoiler bracket kit, (1) light on each side of spoiler
MPSM6-FPIURS2	MPS600 or MPS600U, rear spoiler bracket kit, (3) lights on each side of spoiler
	Side Mirror Brackets
MPSMW9-FPIU13MIR	Pair of side mirror brackets for 2013-2017 Ford Interceptor Utility, each bracket holds a single MPSW9 light
	Steering Wheel Switches
SWM1	Interceptor Switch Module turns positions #1, #2, and #3 of the steering wheel switches inter-dependent to enable "progressive" switching similar to a slide switch function, while position #4 is an independent "push-on/push-of" switch
SWM2	Interceptor Switch Module turns positions #1, #2, and #3 of the steering wheel switches inter-dependent to enable "progressive" switching similar to a slide switch function, while position #4 is an independent "momentary" switch
	Headlight/Taillight Options
MPS650 or MPS652	MicroPulse MPS650 or MPS652 series lights can be mounted in the headlight corner marker position when Ford headlight option 86P is ordered
416800-** or 416810-**	Twist-Lock in-line corner LED models designed for Ford predrilled hole option 86T
FHL-TAIL	Flasher, taillight, universal applications, 18" wire leads
FHL-CHG	Flasher, headlights
	Push Bumpers and Accessories
PBX01	Push Bumper, Ford Utility 2012-2015
PBX05	Push Bumper, Ford Utility 2016-2017
PBX-TCP-1	Plain top channel for use with PBX01 or PBX05
PBX-TC2L-1	Top-channel for mounting (2) IPX6 lights on PBX01 or PBX05 bumpers
PBX-TC2L-3	Top channel for mounting (2) MPS600U or MPS620U lights on PBX01 or PBX05 bumpers
PBX-TC4L-1	Top-channel for mounting (4) IPX6 lights on PBX01 or PBX05 bumpers
PBX-TC4L-3	Top channel for mounting (4) MPS600U or MPS620U lights on PBX01 or PBX05 bumpers
PBX-PIT01	PIT bars for use with PBX01, will not work with Ford option 21L Front Auxiliary Warning Lamp
PBX-PIT05	PIT bars for use with PBX05, will not work with Ford option 21L Front Auxiliary Warning Lamp
PBXW-FPIU16	Wing Wraps for Ford Utility 2016-2017
IPX-PB45H	IPX3/IPX6, pair, 45-degree slanted push bumper mounts, horizontal light orientation
IPX-PB45V	IPX3/IPX6, pair, 45-degree slanted push bumper mounts, vertical light orientation
	Prisoner Transport products
PTPSS01	Polymer Seat, OS Belts, Rear Steel partition, Ford Utility 2012-2017
PTPSPC01	Polymer Seat, OS Belts, Rear Polymer Partition, Ford Utility 2012-2017
PTDP01	Door Panels, Ford Utility 2012-2017
PTWGS01	Window Guards, Steel, Ford Utility 2012-2017
PTWGPC01	Window Guards, Polymer, Ford Utility 2012-2017
PTFP01	Floor Pan, Ford Utility 2012-2017
PTEC01	Electronics Fold Down Cover, Ford Utility 2012-2017

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