



IMPAXX® EXTERNAL MOUNT/PERIMETER LIGHTS

IMPAXX®

available in: 



Highly Effective Warning

IMPAXX light heads combine Solaris® reflector technology with the most advanced LEDs for the brightest, most efficient auxiliary, compact light available.

IMPAXX can operate independently, synchronize with other IMPAXX, or synchronize with Federal Signal's Viper® EXT or Viper® S2 products. IMPAXX lightheads are programmed with built-in flash patterns, the IPX3 contains 23 and the IPX6 contains 25. These patterns can be synchronized to flash in the same pattern, flash in a sliding progression or flash in opposite sequence of each other.

Optimized Lighting

IMPAXX light heads are available with either center focused or off axis lensing. The center focused lens directs the LED light forward making them ideal for front or rear vehicle applications. The advanced off-axis lens provides warning light forward and to both sides, allowing for intersection or side vehicle mounting.

SpectraLux™ and Take Down Capability

IPX6 models feature our SpectraLux multi-color LED capability and are available in single-color models (6-LEDs), two-color models (12-LEDs), or three-color models (18-LEDs). Two-color models or three-color models utilizing White LEDs can be wired to operate the White LEDs in "steady-on" mode in order to provide additional Take Down capability.

Easy Installation

IMPAXX lights come complete with a weatherproof housing, black bezel, and rubber grommet for quick and easy installation. A wide variety of brackets are available for various vehicle types and applications.

> Features

- High output LEDs and Solaris reflector technology.
- Compact size allows for a variety of mount locations.
- Advanced off-axis and center focused lenses available.
- Fully encapsulated weatherproof housing.
- Wide variety of synchronized patterns.
- Available in Red, Blue, White, Amber, and Green LEDs and lenses.
- Variety of mounting brackets available.

> Approvals

- SAE J595
- CCR Title 13
- NFPA 1901 Compliant models available
- EMI and RFI approved



	IPX3	IPX6
Flash Patterns		
1	Off	Off
2	79 FPM Power Quad	79 FPM Power Quad
3	150 FPM Single	150 FPM Single
4	151 FPM Single	151 FPM Single
5	74 FPM Single	74 FPM Single
6	75 FPM Single	75 FPM Single
7	240 FPM Single	240 FPM Single
8	241 FPM Single	241 FPM Single
9	240 FPM Double	240 FPM Double
10	241 FPM Double	241 FPM Double
11	150 FPM Double	150 FPM Double
12	151 FPM Double	151 FPM Double
13	74 FPM Double	74 FPM Double
14	75 FPM Double	75 FPM Double
15	150 FPM Triple	150 FPM Triple
16	75 FPM Triple	75 FPM Triple
17	5 Single @ 680 FPM/ 4 Single @ 216 FPM	5 Single @ 680 FPM/ 4 Single @ 216 FPM
18	4 Single @ 570 FPM/ 3 Single @ 246 FPM	4 Single @ 570 FPM/ 3 Single @ 246 FPM
19	3 Single @ 460 FPM/ 2 Quad @ 75 FPM	3 Single @ 460 FPM/ 2 Quad @ 75 FPM
20	Progressive Flash	Progressive Flash
21	4 Single @ 154 FPM/ 2 Quad @ 75 FPM	4 Single @ 154 FPM/ 2 Quad @ 75 FPM
22	Random Flash	Random Flash
23	Steady Burn	3 quick flashes, then steady burn
24	N/A	Fed pulse 75
25	N/A	Steady Burn

	IPX3	IPX6
Specifications		
Voltage	12.8 VDC	12.8 VDC
Current Draw	0.7A	1A
Operating Temp.	-30° C to +65° C	-30° C to +80° C
Physical Specifications (with Bezel)		
Length	3.7 in (9.4 cm)	5.5 in (14.0 cm)
Width	1.3 in (3.3 cm)	1.5 in (3.8 cm)
Height	1.65 in (4.2 cm)	2.0 in (4.8 cm)
Physical Specifications (without Bezel)		
Length	2.9 in (7.4 cm)	4.1 in (10.4 cm)
Width	1.2 in (3.0 cm)	1.4 in (3.6 cm)
Height	1.3 in (3.3 cm)	1.4 in (3.6 cm)
Ship Weight		
	1.0 lb (0.45 kg)	1.0 lb (0.45 kg)

IMPAXX Compliance Chart				
Impaxx 3 LED Warning Lights: Smooth Lenses				
Color	Lens	SAE J845	SAE J595	CA T13
Red	Red	N/C	Class 2	N/C
Blue	Blue	N/C	Class 2	N/C
Amber	Amber	N/C	Class 2	N/C
Red	Clear	N/C	Class 2	N/C
Blue	Clear	N/C	Class 2	N/C
Amber	Clear	N/C	Class 2	N/C
White	Clear	N/C	Class 2	N/A
Impaxx 3 LED Warning Lights: Horizontal Fluted Lenses				
Color	Lens	SAE J845	SAE J595	CA T13
Red	Red	Class 1	Class 1	Class B
Blue	Blue	Class 2	Class 2	Class B
Amber	Amber	Class 2	Class 2	N/C
Red	Clear	Class 1	Class 1	Class B
Blue	Clear	Class 2	Class 2	Class B
Amber	Clear	Class 2	Class 2	N/C
White	Clear	Class 2	Class 2	N/A
Impaxx 6 LED Warning Lights: Horizontal Fluted Lenses				
Color	Lens	SAE J845	SAE J595	CA T13
Red	Red	Class 1	Class 1	Class B
Blue	Blue	Class 2	Class 2	N/C
Amber	Amber	Class 1	Class 1	N/C
Red	Clear	Class 1	Class 1	Class B
Blue	Clear	Class 2	Class 2	Class B
Amber	Clear	Class 1	Class 1	N/C
White	Clear	Class 1	Class 1	N/A
Impaxx 6 LED Warning Lights: Vertical Fluted Lenses				
Color	Lens	SAE J845	SAE J595	CA T13
Red	Red	Class 1	Class 1	Class B
Blue	Blue	Class 2	Class 2	N/C
Amber	Amber	Class 1	Class 1	N/C
Red	Clear	Class 1	Class 1	Class B
Blue	Clear	Class 2	Class 2	N/C
Amber	Clear	Class 1	Class 1	N/C
White	Clear	Class 1	Class 1	N/A

> How to Order

Select Model

IPX3 Models					
Model Family	Model #	LED Colors	Lens Color	Lens Prescription	Mounting Orientation
IPX300	IPX300-2	Amber	Clear	Off-axis	Horizontal
	IPX300-3	Blue	Clear	Off-axis	Horizontal
	IPX300-4	Red	Clear	Off-axis	Horizontal
	IPX300-5	White	Clear	Off-axis	Horizontal
	IPX300-6	Green	Clear	Off-axis	Horizontal
IPX310	IPX310-2	Amber	Clear	Center	Horizontal or Vertical
	IPX310-3	Blue	Clear	Center	Horizontal or Vertical
	IPX310-4	Red	Clear	Center	Horizontal or Vertical
	IPX310-5	White	Clear	Center	Horizontal or Vertical
	IPX310-6	Green	Clear	Center	Horizontal or Vertical
IPX302	IPX302-2	Amber	Amber	Off-axis	Horizontal
	IPX302-3	Blue	Blue	Off-axis	Horizontal
	IPX302-4	Red	Red	Off-axis	Horizontal
	IPX302-6	Green	Green	Off-axis	Horizontal
IPX312	IPX312-2	Amber	Amber	Center	Horizontal or Vertical
	IPX312-3	Blue	Blue	Center	Horizontal or Vertical
	IPX312-4	Red	Red	Center	Horizontal or Vertical
	IPX312-6	Green	Green	Center	Horizontal or Vertical



Grille Application



Rear Side Window Application

IPX6 Models					
Model Family	Model #	LED Colors	Lens Color	Lens Prescription	Mounting Orientation
IPX600	IPX600-A	Amber	Clear	Off-axis	Horizontal
	IPX600-B	Blue	Clear	Off-axis	Horizontal
	IPX600-R	Red	Clear	Off-axis	Horizontal
	IPX600-W	White	Clear	Off-axis	Horizontal
	IPX600-G	Green	Clear	Off-axis	Horizontal
IPX602	IPX602-A	Amber	Amber	Off-axis	Horizontal
	IPX602-B	Blue	Blue	Off-axis	Horizontal
	IPX602-R	Red	Red	Off-axis	Horizontal
IPX603	IPX603-A	Amber	Clear	Off-axis	Vertical
	IPX603-B	Blue	Clear	Off-axis	Vertical
	IPX603-R	Red	Clear	Off-axis	Vertical
	IPX603-W	White	Clear	Off-axis	Vertical
IPX604	IPX604-A	Amber	Amber	Off-axis	Vertical
	IPX604-B	Blue	Blue	Off-axis	Vertical
	IPX604-R	Red	Red	Off-axis	Vertical
IPX620	IPX620-RA	Red/Amber	Clear	Off-axis	Horizontal
	IPX620-BR	Blue/Red	Clear	Off-axis	Horizontal
	IPX620-BA	Blue/Amber	Clear	Off-axis	Horizontal
	IPX620-WA	White/Amber	Clear	Off-axis	Horizontal
	IPX620-BW	Blue/White	Clear	Off-axis	Horizontal
	IPX620-RW	Red/White	Clear	Off-axis	Horizontal
IPX630	IPX630-BRA	Blue/Red/Amber	Clear	Off-axis	Horizontal
	IPX630-BRW	Blue/Red/White	Clear	Off-axis	Horizontal
IPX633	IPX633-BRA	Blue/Red/Amber	Clear	Off-axis	Vertical
	IPX633-BRW	Blue/Red/White	Clear	Off-axis	Vertical



License Plate Application



Trunk Lid Application

> How to Order

Optional Accessories



IPXM-1
Chrome bezel for IPX3 models, (sold separately)
Note: Black bezel and mounting grommet is included with every model.



IPX6M-1
Chrome bezel for IPX6 models, (sold separately)
Note: Black bezel and mounting grommet is included with every model.



IPX-GRL3
Pair of Brackets for grille mounting IPX3, IPX6, or VPX8 lights on 2011 Dodge Charger



IPX-GRL4
IPX3-only, pair of grille brackets with each bracket holds (2) IPX3 light in a vertical orientation for Chevy Caprice



IPX-RDW2
Pair of Brackets and Covers for installing two IPX3, IPX6, or VPX8 in each Rear Side Window of the Chevy Caprice



IPX-ROW1
Pair of brackets for installing a single IPX3 or IPX6 lighthouse in each Rear Side "Opera" Window of the Chevy Caprice



IPX-RSW1
Pair of brackets/covers for mounting a IPX3, IPX6, or VPX8 light in Rear Side Window of 2011 Dodge Charger



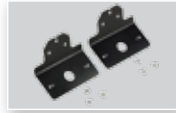
IPX-RSW2
Pair of Brackets and Covers for installing a single IPX3 or IPX6 or VPX8 lighthouse in each Rear Side Window of the Chevy Caprice



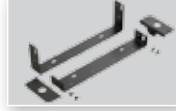
IPX-TRNK3
Pair of brackets for trunk mounting IPX3, IPX6, or VPX8 on 2011 Dodge Charger



IPX-TRNK1
IMPAXX/Viper® EXT, pair of inner trunk lid brackets with hardware, '02-'08 Ford Crown Victoria Police Interceptor package



IPX-TRNK2
IMPAXX/Viper EXT, pair of inner trunk lid brackets with hardware, '07-'08 Dodge Charger



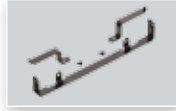
IPX-LPV1
IMPAXX/Viper EXT, flat surface license plate mount, various vehicles without recessed plate mounting locations



IPX-LPVX1
IMPAXX/Viper EXT, extended license plate bracket for vehicles with a recessed license plate mount location including but not limited to the '02-'08 Ford Crown Victoria Police Package



IPX-LPH1
IMPAXX/Viper EXT, generic high side license plate holder with horizontal mount tab on each side, fits most vehicles



IPX-LPF1
IMPAXX only, generic low side license plate holder for horizontal IMPAXX install, most vehicles



IPX-SW1
IMPAXX/Viper EXT, pair of rear side window mount brackets, '02-'08 Ford Crown Victoria Police Package vehicles



IPX-PB45H
IMPAXX/Viper EXT, pair of 45-degree slanted push bumper mounts with hardware, horizontal light orientation, fits most push bumpers



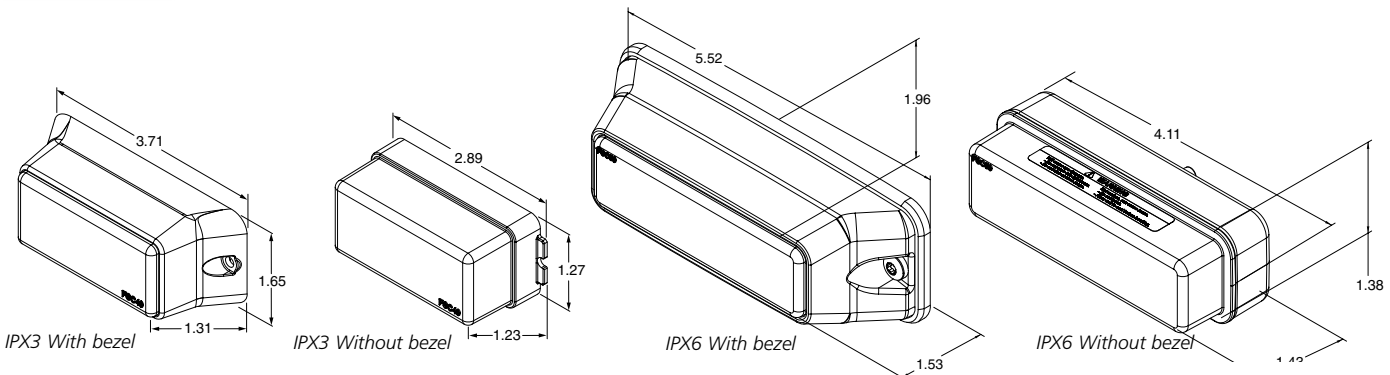
IPX-PB45V
IMPAXX/Viper EXT, pair of 45-degree slanted push bumper mounts with hardware, vertical light orientation, fits most push bumpers



IPX-GRL1
IMPAXX/Viper EXT, (1) grille brackets with hardware, vertical mount orientation, Ford Crown Victoria Police Package vehicles, '02-'08



IPX-GRL2
IMPAXX/Viper EXT, (1) grille brackets with hardware, horizontal mount orientation, Ford Crown Victoria Police Package vehicles, '02-'08



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