



LIGHTING EVOLVED

2013 Industrial Guide

VISION X LIGHTING

INDUSTRIAL COMMERCIAL



Business Profile

Vision X Lighting is a multinational company specializing in mining and heavy industrial lighting. Services include engineering, manufacturing and on-site consulting for specific lighting needs for equipment as well as structural building lighting applications. Currently we are active in 127 countries in the forestry, mining, construction, commercial, transport and structural lighting industries where second best is not accepted. Our international coverage includes all 7 continents.

CONTINUOUS IMPROVEMENT

ISO

Vision X Meets ISO 9001,
ISO 14001 Standards

HAZCOM

Certified HAZCOM
Program

15

Years of Experience
with Finding Lighting
Solutions

500+

Vision X Lights are
Active in 500+ Mine
Sites Worldwide

ECOPROFIT

Award Winning Factory
for Environmental
Responsibility

**Photo
Biological**

All Lights are Photo
Biologically Tested Safe
for Human Skin and Eyes

LIGHTING EVOLVED

LED INITIATIVE PROGRAM

Safety

- IEC 62471 Photo Biological Tested - No Effect on Human Eye or Skin
- 6000k Color Temperature Reduces Operator Fatigue
- Low Voltage Electronics Eliminates Risk of Shock
- Thermally Regulated Housings Eliminate Touch Burns
- Increased Light Output Reduces Near Miss Incidences
- RoHS Compliant Electronics Contain No Lead or Mercury



Preventative Maintenance

- Long Life LED Exceeds Half Engine Life
- Solid State Components Completely Resist Vibration
- Low Startup Current Draw Reduces Wear on Associated Components
- Built-In Redundancy Lessens Chance of Full Fixture Failure
- Built-In Thermal Management Prevents Overheating
- IP-68 Rated Housings for Superior Ingress Protection



Cost Savings

- Reduces Associated Component Wear
- Less Expensive Than OE and HID Options
- Increased Reliability for Increased Production
- Reduces or Removes Unscheduled Lighting Maintenance
- Increased Productivity Due to Less Operator Fatigue
- Streamline Inventory Counts to Common Solution



Environment

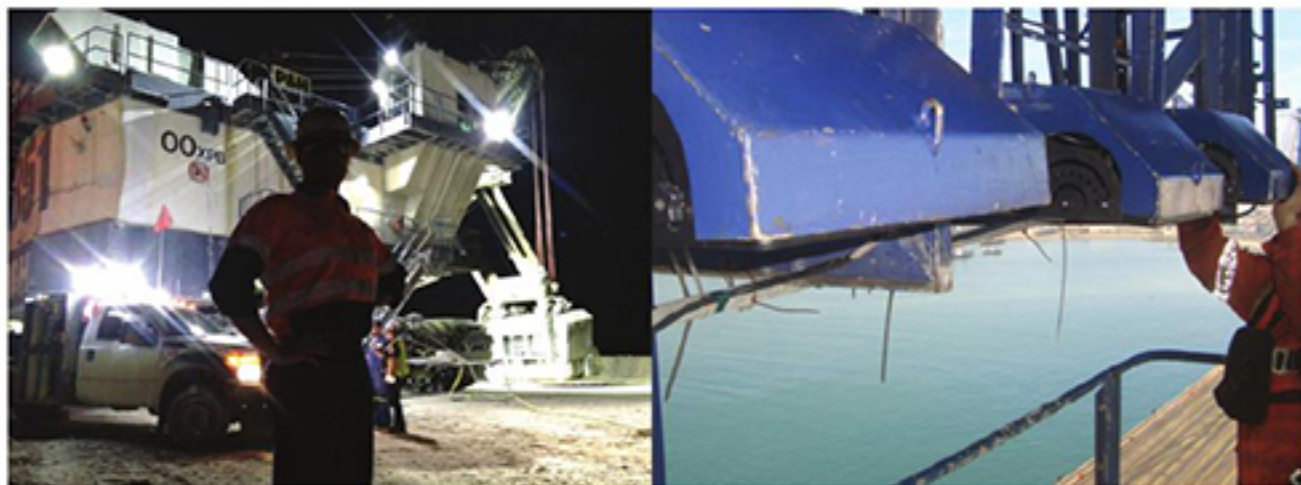
- RoHS Compliant Electronics
- Contains No Lead or Mercury
- Reduced CO₂ Emissions
- No Hazardous Disposal Required
- Reduced Light Pollution



CREATING SOLUTIONS

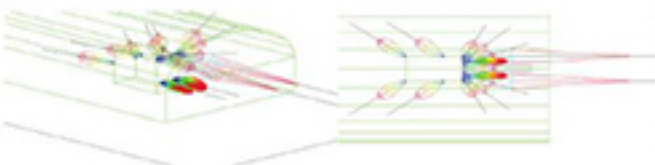
Consulting Evaluating The Environment

Vision X's goal is to be a solution provider. As part of this goal we put a large emphasis on on-site consultation, helping to find lighting solutions by understanding the environment and providing the best combination of products that meet your requirements.

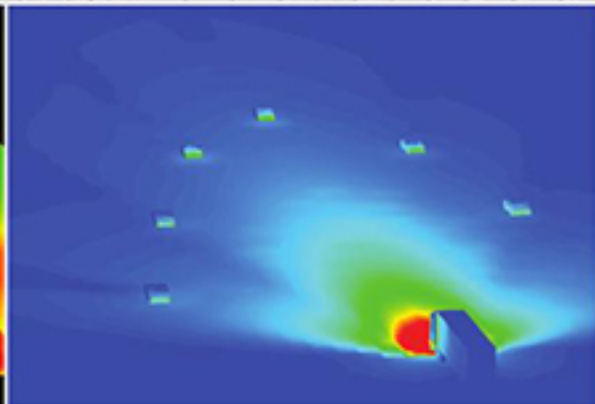
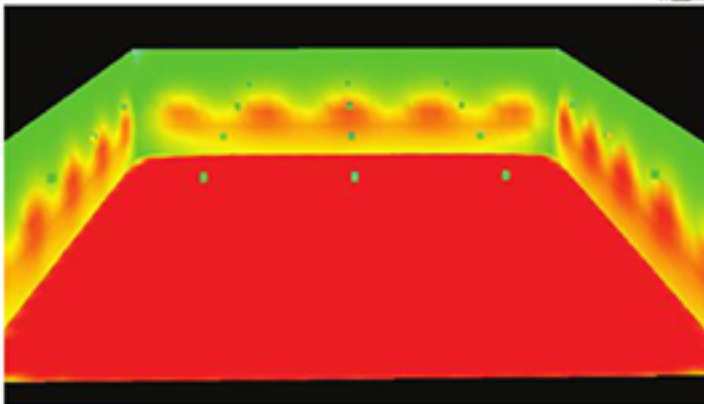


Analysis Creating The Solution

3D analysis allows Vision X to recreate the beam pattern and intensity of the lights in CAD, allowing us to prove the concept by virtually bolting the lights onto a vehicle in CAD to create a real time renderings.



Symbol	Coordinate	Label	X	Y	Z	Beam	HA	Rot	Type	Depth	Depth	Depth
1	0,0,0	DLN100P300	100	14	14	90	140	0	0	N/A	N/A	N/A
2	0,0,0	DLN100P300	100	11	14	90	130	0	0	N/A	N/A	N/A
3	0,0,0	DLN100P300	100	12	14	90	130	0	0	N/A	N/A	N/A
4	0,0,0	DLN100P300	100	15	14	90	140	0	0	N/A	N/A	N/A
5	0,0,0	DLN100P300	100	18	14	90	150	0	0	N/A	N/A	N/A
6	0,0,0	DLN100P300	100	21	14	90	160	0	0	N/A	N/A	N/A
7	0,0,0	DLN100P300	100	24	14	90	170	0	0	N/A	N/A	N/A
8	0,0,0	DLN100P300	100	27	14	90	180	0	0	N/A	N/A	N/A
9	0,0,0	DLN100P300	100	30	14	90	190	0	0	N/A	N/A	N/A
10	0,0,0	DLN100P300	100	33	14	90	200	0	0	N/A	N/A	N/A
11	0,0,0	DLN100P200	100	36	14	90	210	0	0	N/A	N/A	N/A
12	0,0,0	DLN100P200	100	39	14	90	220	0	0	N/A	N/A	N/A
13	0,0,0	DLN100P200	100	42	14	90	230	0	0	N/A	N/A	N/A
14	0,0,0	DLN100P300	100	45	14	90	240	0	0	N/A	N/A	N/A
15	0,0,0	DLN100P300	100	48	14	90	250	0	0	N/A	N/A	N/A
16	0,0,0	DLN100P300	100	51	14	90	260	0	0	N/A	N/A	N/A
17	0,0,0	DLN100P300	100	54	14	90	270	0	0	N/A	N/A	N/A



60

Vision X Lighting takes 60 days to get from concept to production

7

Vision X Lighting can be found in use on 7 continents

Lighting Placement Guides Custom Solution Manuals

Vision X develops lighting placement guides for any project to ensure optimal lighting placement and output. Providing proven configurations and results gives greater safety and efficiency for operators by providing the best lighting conditions possible.

PEH 4100XPC

MIL-PMX060
P/N: 2004 400w-060w HPS LED replacement fixture

Vision X Lighting Industrial Services
P: 1-800-994-4460 E: info@visionxusa.com
Copyright 2013 Vision X Lighting

STRUCTURAL

MIL-PMX060
P/N: 2004 400w-060w HPS LED replacement fixture

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P: 1-800-994-4460 E: info@visionxusa.com
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GANTRY CRANE

MIL-PMX040
400W Metal Halide Replacement LED Work Fixture
P/N: 2004 400w-040w HPS LED replacement fixture

MIL-PMX060
400W Metal Halide Replacement LED Work Fixture
P/N: 2004 400w-060w HPS LED replacement fixture

MIL-PMX080
1200W Metal Halide Replacement LED Work Fixture
P/N: 2004 1200w-080w HPS LED replacement fixture

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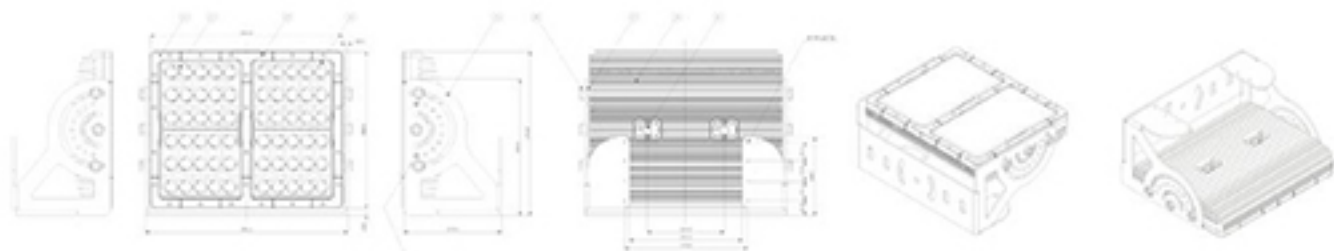
Return on Investment Measurable Cost Savings

Converting to LED reduces CO₂ emissions, reduces unscheduled maintenance for lighting, increases reliability, longevity and is less expensive than OE and HID options

Financial Benefits Per Machine (12 Fixtures) P&H 2800/4100 Technology Upgrade Overview

	OE HPS	MIL-PMX6060 LED	REDUCTION	INCREASE	% CHANGE
Wattage	12,000	3,600	8,400		-70%
Amperage (120vAC)	99.96	30	69.96		-70%
Comprehensive Lux at 12 Locations	20,136	25,452		5,316	+21%
Daily Operating Wh (24 Hours)	288,000	86,400	201,600		-70%
Monthly Maintenance	1.61	0	1.61		-100%
kWh cost per month (\$0.40 kWh)	\$3,456.00	\$1,036.80	\$2,419.20		-70%
Annual kWh Cost	\$41,472.00	\$12,441.60	\$29,030.40		-70%
10 Year ROI	\$414,720.00	\$124,416.00	\$290,304		-70%
Annual UM Cost (\$60k/hr - 0.5hr repair)	\$581,538.48	\$0.00	\$581,538.48		-100%
Annual CO2 Emissions (1.33lbs/kWh)	139,809.24	41,942.76	97,866.48		-70%

COMPREHENSIVE LIGHTING SYSTEMS



LED TECHNOLOGY EXPLAINED

Latest LED Technology

Vision X is constantly evolving our product line by working with the world's leading LED manufacturers to drive LED lighting technology forward.

Top Binning

Not all LEDs are created equal. Each run of LEDs by the manufacturer is binned to classify the quality within that batch. Vision X uses only top-binned LEDs to ensure the highest quality.

High Efficacy

Vision X products are engineered for the highest possible luminous efficacy, or the ratio of lumens per watt, producing the most light while drawing the least amount of power.

PWM

Pulse Width Modulation integrated circuitry flashes the LED faster than the human eye can see for a lower operating temperature, prolonged LED life, and dimming capabilities.

Prime Drive Thermal Management

Regulates the temperature of the lights to an exterior housing temp of 130F (55C); no touch burns and well below the ignition temperature for hydraulic fluid. Sustains long life of LEDs.

Dimming

Prime Drive Technology allows for fully dimmable lighting by using the Vision X push button or dial dimmer accessory units.

Advanced Heat Sinks

All Vision X LED products are engineered with an advanced heat sink to maintain a safe operating temperature for the LEDs and to prolong the life of the light.

Aluminum

Only top quality aluminum is used for Vision X die-cast and extruded housings to provide superior strength and optimal heat dissipation.

Seamless Optics

Specially engineered to ensure both spread and distance, Vision X optics maximize light output by achieving 90% optical purity.

Beam Pattern Control

Our goal is to achieve the most control of each LED and tailor it specifically to the market needed. Whether through our 10° spot optic or 90° wide flood optic, Vision X offers a beam pattern to best fit any application.

LED WATTAGE EXPLAINED

10 Watt LED

Highest light output per LED for the greatest bulk light, producing the most light output per square inch.

5 Watt LED

The greatest distance meets the greatest light output. A tight LED configuration allowed by the 5 watt LEDs small footprint achieves the brightest light and greatest distance.

3 Watt LED

The tight LED configuration allows for precise optical control. Achieves great distance and depth.

SMD LED

The SMD LED configuration creates intense lighting for short-throw applications including structural and cab lighting.



ADVANCED TECHNOLOGY

BEAM PATTERNS

Developed in consultation with industry leaders to meet specific needs and provide for the most control of the light source

10 Degree

Spot light applications



60 Degree

High beam open pit flood applications and work lighting



25 Degree

Long range flood applications



90 Degree

High beam underground flood applications and work lighting



40 Degree

Medium range flood applications



3065 Elliptical

30*65° low beam driving and tramming light



PART NUMBER EXPLANATION

Example

MIL	-	PMX	-	30	-	60
Technology		Series		# of LED		Beam Pattern

Technology

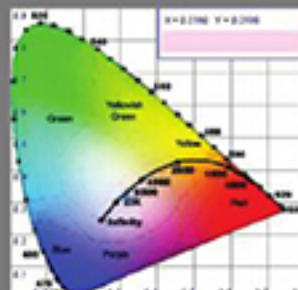
MIL Mining LED
XIL Commercial LED
CTL Commercial Truck Lighting

Beam Pattern

10 10° Optic
25 25° Optic
40 40° Optic
60 60° Optic
90 90° Optic
e3065 30*65° Elliptical

LIGHT TEMPERATURE

Vision X lights are designed to produce the highest light output for safety and efficiency. The way this is done is through providing light at 6000k to ensure bright working conditions.



PIT MASTER SERIES

PIT MASTER 60 HPS REPLACEMENT LIGHT

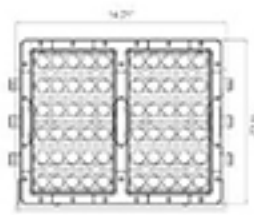
1000 Watt Metal Halide Replacement



MIL-PMX6040 Shown

Pit Master 60 Series

The Pit Master series was designed with many applications in mind, reducing power consumption and increasing light output.



PART #	MIL-PMX6010	MIL-PMX6025	MIL-PMX6040	MIL-PMX6060	MIL-PMX6090	MIL-PMX60E3066
STOCK CODE	9112081	9112172	9112266	9112367	9129986	9112449
BEAM PATTERN	10° Narrow	25° Medium	40° Wide	60° Extra Wide	90° Xtreme Wide	30x65° Elliptical

Technical Information

WARRANTY	Extended
RAW LUMENS	29,580 lm
EFFECTIVE LUMENS	21,647 lm
WATTAGE	300
WEIGHT	29.17 lbs/3.23 kg
LED LIFE SPAN	50,000 Hours
DIMENSIONS	14.25" x 11.68" x 7.00" 363 mm x 297 mm x 179 mm
INPUT VOLTAGE	24V DC 90-480V AC w/Optional Inverter
AMP DRAW (24V)	12.5A
IP RATING	IP-68
VIBRATION RATING	15.6 G _{rms}
OPERATING TEMP	-40 Celsius ~ +80 Celsius
LED COLOR TEMPERATURE	6000K

Features

- Integrated Power Supply Mount (Power Supply Sold Separately)
- Xtreme Five Watt LED is Drive to 90% Efficiency
- Integrated Electronic Thermal Management
- 360° Fully Adjustable Mounting System
- Integrated Deutsch Connector
- Die-Cast Aluminum Housing
- Reinforced Gasketed Bezel
- Redundant Circuitry Design
- Polycarbonate Lens
- Patent Pending



Pit Master Usage Guide

Pit Master 60. Direct 1 for 1 replacement for 800-1000 Watt HPS lighting for a 70% reduction in power consumption while increasing effective output by 30%. Redundant circuit boards and inverters in the 60 LED model completely remove unscheduled maintenance allowing the light to function even if half the system fails.

Pit Master 30. Direct 1 for 1 replacement for 400-500 Watt HPS lighting for a 70% reduction in power consumption while increasing effective output by 30%.

Pit Master Series Packages

PART #	STOCK CODE	DESCRIPTION	PARTS INCLUDED	VOLTAGE
CXA-PMX3060HPS	9887388	30 LED PIT MASTER MINING INDUSTRIAL LIGHT 60° FLOOD HANGING MOUNT W/ MOUNTED POWER SUPPLY	MIL-PMX3060 X 1 XPC-PS150-24 X 1 P-PMX30HANGINGMOUNT X 1 P-JBOXAC X 1	90-277V AC
CXA-PMX3060FPS	9887395	30 LED PIT MASTER MINING INDUSTRIAL LIGHT 60° FLOOD FLUSH MOUNT W/ MOUNTED POWER SUPPLY	MIL-PMX3060 X 1 XPC-PS150-24 X 1 P-PMX30FLUSHMOUNT X 1 P-JBOXAC X 1	90-277V AC
CXA-PMX3060CPS	9887401	30 LED PIT MASTER MINING INDUSTRIAL LIGHT 60° FLOOD COBRAHEAD MOUNT W/ MOUNTED POWER SUPPLY	MIL-PMX3060 X 1 XPC-PS150-24 X 1 P-PMX30COBRAHEADMOUNT X 1 P-JBOXAC X 1	90-277V AC
MIL-PMX3060PS	9887418	30 LED PIT MASTER MINING INDUSTRIAL LIGHT 60° FLOOD W/ MOUNTED POWER SUPPLY	MIL-PMX3060 X 1 XPC-PS150-24 X 1 P-JBOXAC X 1	90-277V AC
CXA-PMX6060HPS	9887425	60 LED PIT MASTER MINING INDUSTRIAL LIGHT 60° FLOOD W/ MOUNTED POWER SUPPLIES	MIL-PMX6060 X 1 XPC-PS150-24 X 2 P-PMX60HPLATE X 1 P-JBOXAC X 2	90-277V AC
MIL-PMX6060PS	9887432	60 LED PIT MASTER MINING INDUSTRIAL LIGHT 60° FLOOD W/ MOUNTED POWER SUPPLIES	MIL-PMX6060 X 1 XPC-PS150-24 X 2 P-JBOXAC X 2	90-277V AC

PIT MASTER 30 HPS REPLACEMENT LIGHT

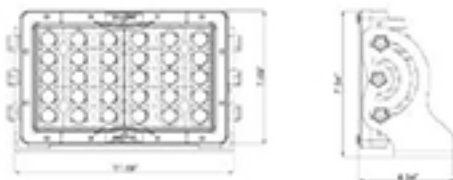
500 Watt Metal Halide Replacement

Pit Master 30 Series

The Pit Master series was designed with many applications in mind, reducing power consumption and increasing light output.



MIL-PMX3040 Shown



PART #	MIL-PMX3010	MIL-PMX3025	MIL-PMX3040	MIL-PMX3060	MIL-PMX3090	MIL-PMX30E3065
STOCK CODE	9112633	9112725	9112817	9112909	9128107	9112992
BEAM PATTERN	10° Narrow	25° Medium	40° Wide	60° Extra Wide	90° Xtreme Wide	30x65° Elliptical

Technical Information

WARRANTY	Extended
RAW LUMENS	14,790 lm
EFFECTIVE LUMENS	10,727 lm
WATTAGE	150
WEIGHT	11.02 lbs/5.0 kg
LED LIFE SPAN	50,000 Hours
DIMENSIONS	11.75" x 7.70" x 5.04" 298.5 mm x 195.5 mm x 127.5 mm
INPUT VOLTAGE	24V DC 90-480V AC w/Optional Inverter
AMP DRAW (24V)	6.2A
IP RATING	IP-68
VIBRATION RATING	15.6 G _{rms}
OPERATING TEMP	-40 Celsius ~ +80 Celsius
LED COLOR TEMPERATURE	6000K

Features

- Integrated Power Supply Mount (Power Supply Sold Separately)
- Xtreme Five Watt LED is Drive to 90% Efficiency
- Integrated Electronic Thermal Management
- 360° Fully Adjustable Mounting System
- Integrated Deutsch Connector
- Die-Cast Aluminum Housing
- Reinforced Gasketed Bezel
- Polycarbonate Lens
- Patent Pending



Optional Mounts

Available mounts include the Cobra Head Mount, the Flush Mount and the Hanging Mount.



Flush Mount
For Low Bay Applications
P-PMX30FLUSHMOUNT



Hanging Mount
For Hanging Applications
P-PMX30HANGINGMOUNT



Cobra Head Mount
For Street Lighting
P-PMX30COBRAHEADMOUNT

Optional AC/DC Converter

High voltage inverters support up to 480V of AC input.



PART #	XPC-PS150-24	XPC-PS150-HV-24*
STOCK CODE	4888236	9887371
INPUT VOLTAGE	90-277V AC	180-480V AC
OUTPUT VOLTAGE	24V DC	24V DC
WATTAGE	150	150
MAX AMP DRAW (24V)	6.25A	6.25A

*Requires Additional Adapter

RIPPER SERIES



RIPPER 20 HIGH VIBRATION LIGHT

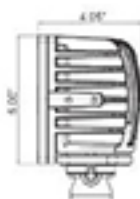
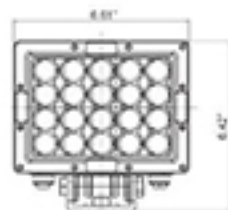
60 G_{RMS} Rated for High Vibration Applications



MIL-RXP2040T Shown

Ripper 20 Series

The Ripper Lights were designed for high vibration applications. Named for its first application, the ripper mount on a dozer.



PART #	MIL-RXP2010T	MIL-RXP2025T	MIL-RXP2040T	MIL-RXP2060T	MIL-RXP2090T	MIL-RXP20E2065T
STOCK CODE	9114163	9114255	9114347	9114439	9128640	9114521
BEAM PATTERN	10° Narrow	25° Medium	40° Wide	60° Extra Wide	90° Xtreme Wide	30x65° Elliptical

Technical Information

WARRANTY	Extended
RAW LUMENS	9,860 lm
EFFECTIVE LUMENS	6,220 lm
WATTAGE	100
WEIGHT	6.83 lb/3.1 kg
LED LIFE SPAN	50,000 Hours
DIMENSIONS	8.26" x 6.25" x 4.05" 209.8 mm x 158.5 mm x 102.8 mm
INPUT VOLTAGE	9-32V DC
AMP DRAW (24V)	4.1A
IP RATING	IP-68
VIBRATION RATING	60 G _{RMS}
OPERATING TEMP	-40 Celsius ~ +60 Celsius
LED COLOR TEMPERATURE	6000K

Features

- Xtreme Five Watt LED is Drive to 90% Efficiency
- Integrated Electronic Thermal Management
- Advanced Heat Sink Design
- Integrated Deutsch Connector
- Die-Cast Aluminum Housing
- Polycarbonate Lens
- Patent Pending



Ripper Series Usage Guide

Direct 1 for 1 replacement for HID Lighting on vehicles. The 60° beam allows for flood lighting on vehicle while the 40° beam allows for spot and low beam lighting.

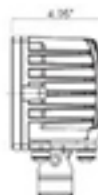
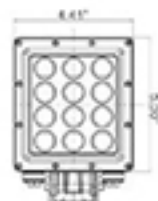


RIPPER 12 HIGH VIBRATION LIGHT

60 G_{RMS} Rated for High Vibration Applications



MIL-RXP1210T Shown



Ripper 12 Series

The Ripper Lights were designed for high vibration applications. Named for its first application, the ripper mount on a dozer.

PART #	MIL-RXP1210T	MIL-RXP1225T	MIL-RXP1240T	MIL-RXP1260T	MIL-RXP1290T	MIL-RXP12E066T
STOCK CODE	4009974	4008618	4009981	4009998	9128558	4008236
BEAM PATTERN	10° Narrow	25° Medium	40° Wide	60° Extra Wide	90° Xtreme Wide	30x65° Elliptical

Technical Information

WARRANTY	Extended
RAW LUMENS	5,916 lm
EFFECTIVE LUMENS	3,575 lm
WATTAGE	60
WEIGHT	5.07 lb/2.3 kg
LED LIFE SPAN	50,000 Hours
DIMENSIONS	6.06" x 6.26" x 4.05" 153.8 mm x 159.5 mm x 102.8 mm
INPUT VOLTAGE	9-32V DC
AMP DRAW (24V)	2.5A
IP RATING	IP-68
VIBRATION RATING	60 G _{RMS}
OPERATING TEMP	-40 Celsius ~ +60 Celsius
LED COLOR TEMPERATURE	6000K

Features

- Xtreme Five Watt LED is Drive to 90% Efficiency
- Integrated Electronic Thermal Management
- Advanced Heat Sink Design
- Integrated Deutsch Connector
- Die-Cast Aluminum Housing
- Polycarbonate Lens
- Patent Pending





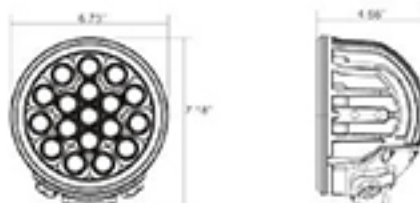
TRANSPORTER 6.7" LED LIGHT

Ultimate LED Lighting System For Truck and Transport



Transporter Series

The Transporter Series offers 9, 12, and 18 LED upgrade lighting for transport and trucking.



CTL-TPX1810 Shown

10" Narrow Beam LED Transporter

PART #	CTL-TPX910	CTL-TPX1210	CTL-TPX1810
STOCK CODE	9110110	9110561	9111018
LED'S	9	12	18
RAW LUMENS	4,437 lm	5,916 lm	8,874 lm
EFFECTIVE LUMENS	2,840 lm	4,085 lm	5,299 lm
WATTAGE	45	60	90
AMP DRAW (12V)	3.75A	5A	7.5A
WEIGHT	5.95 lb/2.7 kg	5.95 lb/2.7 kg	6.17 lb/2.8 kg

40" Wide Beam LED Transporter

PART #	CTL-TPX940	CTL-TPX1240	CTL-TPX1840
STOCK CODE	9110295	9110745	9111193
LED'S	9	12	18
RAW LUMENS	4,437 lm	5,916 lm	8,874 lm
EFFECTIVE LUMENS	2,840 lm	4,085 lm	5,299 lm
WATTAGE	45	60	90
AMP DRAW (12V)	3.75A	5A	7.5A
WEIGHT	5.95 lb/2.7 kg	5.95 lb/2.7 kg	6.17 lb/2.8 kg

Technical Information

WARRANTY	Extended
LED LIFE SPAN	50,000 Hours
DIMENSIONS	8.26" x 6.25" x 4.05" 209.8 mm x 158.5 mm x 102.8 mm
INPUT VOLTAGE	9-32V DC
AMP DRAW (24V)	4.1A
IP RATING	IP-68
VIBRATION RATING	60 G _{rms}
OPERATING TEMP	-40 Celsius ~ +80 Celsius
LED COLOR TEMPERATURE	6000K

Features

- Clear, Red, Blue, and Yellow Protective PC Covers Available
- Xtreme Five Watt LED is Drive to 90% Efficiency
- Integrated Electronic Thermal Management
- Advanced Heat Sink Design
- Integrated Deutsch Connector
- Die-Cast Aluminum Housing
- Polycarbonate Lens
- Patent Pending



Transporter Series Usage Guide

Powerful LED lighting for use as forward lighting in trucking and industrial applications.

9 LED Transporter



12 LED Transporter



18 LED Transporter





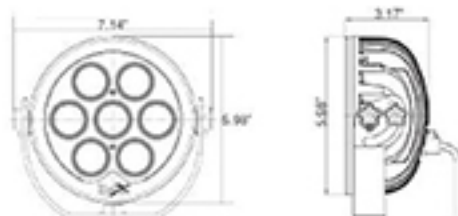
SOLSTICE PRIME 7 LED MOBILE LIGHT

Next Gen 10 Watt Standard Form Factor Light



Solstice Prime 7 LED

The Solstice Prime 7 LED builds upon Vision X Lighting's success in the 6" Round form factor light market.



XIL-SP720 Shown

PART #	XIL-SP720	XIL-SP740
STOCK CODE	4009868	4009875
BEAM PATTERN	20° Narrow	40° Wide

Technical Information

WARRANTY	Extended
RAW LUMENS	6,020 lm
EFFECTIVE LUMENS	4,214 lm
WATTAGE	10
WEIGHT	4.52 lb/2.05 kg
LED LIFE SPAN	50,000 Hours
DIMENSIONS	7.14" x 5.98" x 3.17" 181.3 mm x 152 mm x 80.6 mm
INPUT VOLTAGE	9-48V DC
AMP DRAW (24V)	2.92A
IP RATING	IP-68
VIBRATION RATING	15.6 G _{RMS}
OPERATING TEMP	-40 Celsius ~ +80 Celsius
LED COLOR TEMPERATURE	6000K

Features

- Next Gen 10 Watt LED Driven to 90% Efficiency
- Integrated Electronic Thermal Management
- Advanced Heat Sink Design
- Integrated Deutsch Connector
- Die-Cast Aluminum Housing
- Polycarbonate Lens
- Patent Pending



Solstice Prime Series Usage Guide

Direct 1 for 1 replacement for HID Lighting on vehicles. The 40° beam allows for flood lighting on vehicle while the 20° beam allows for spot lighting.

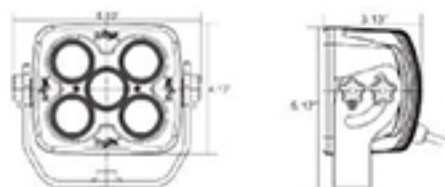
SOLSTICE PRIME 5 LED MOBILE LIGHT

Next Gen 10 Watt Standard Form Factory Light



Solstice Prime 5 LED

The Solstice Prime 5 LED builds upon Vision X Lighting's success in the 4" Square form factor light market.



XIL-SP 520 Shown

PART #	XIL-SP520	XIL-SP540
STOCK CODE	4009844	4009851
BEAM PATTERN	20° Narrow	40° Wide

Technical Information

WARRANTY	Extended
RAW LUMENS	4,300 lm
EFFECTIVE LUMENS	3,010 lm
WATTAGE	50
WEIGHT	3.09 lbs/ 1.4 kg
LED LIFE SPAN	50,000 Hours
DIMENSIONS	6.00" x 4.13" x 3.13" 152.5 mm x 105 mm x 79.2 mm
INPUT VOLTAGE	9-48V DC
AMP DRAW (24V)	2.08A
IP RATING	IP-68
VIBRATION RATING	8.6 G
OPERATING TEMP	-40 Celsius ~ +60 Celsius
LED COLOR TEMPERATURE	6000K

Features

- Next Gen 10 Watt LED Driven to 90% Efficiency
- Integrated Electronic Thermal Management
- Advanced Heat Sink Design
- Integrated Deutsch Connector
- Die-Cast Aluminum Housing
- Polycarbonate Lens
- Patent Pending



UTILITY MARKET 7 LED MOBILE LIGHT

Compact Powerful Light

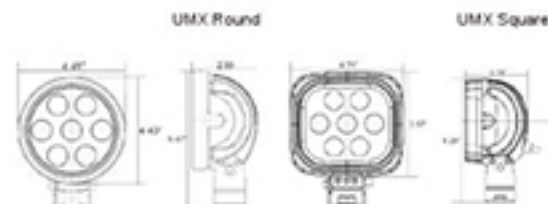


XIL-UMX4440 Shown

XIL-UMX4040 Shown

Utility Market 7 LED

The Utility Market 7 LED lights fit almost any mounting location, and provide a large amount of light without taking a large amount of space.



PART # (SQUARE)	XIL-UMX4410	XIL-UMX4440	XIL-UMX4460
STOCK CODE	4004726	9118290	9118482
BEAM PATTERN	10° Narrow	40° Wide	60° Extra Wide

PART # (ROUND)	XIL-UMX4010	XIL-UMX4040	XIL-UMX4060
STOCK CODE	4004719	9118215	9118207
BEAM PATTERN	10° Narrow	40° Wide	60° Extra Wide

Technical Information

WARRANTY	Extended
RAW LUMENS	3,451 lm
EFFECTIVE LUMENS	2,416 lm
WATTAGE	35
WEIGHT	2.87 lbs/ 1.29 kg
LED LIFE SPAN	50,000 Hours
DIMENSIONS	6.43" x 5.50" x 3.12" 163 mm x 140 mm x 79 mm
INPUT VOLTAGE	9-32V DC
AMP DRAW (24V)	1.4A
IP RATING	IP-68
VIBRATION RATING	15.6 G
OPERATING TEMP	-40 Celsius ~ +60 Celsius
LED COLOR TEMPERATURE	6000K

Features

- Xtreme Five Watt LED is Driven to 90% Efficiency
- Integrated Electronic Thermal Management
- Advanced Heat Sink Design
- Integrated Deutsch Connector
- Die-Cast Aluminum Housing
- Polycarbonate Lens
- Patent Pending



SHOCKWAVE SERIES

SHOCKWAVE DUAL PANEL LED LIGHT

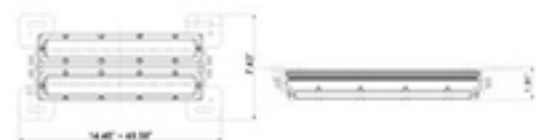
Modular LED Upgrade for Fluorescent



MIL-SWD1220 Shown

Shockwave Dual Series

The Shockwave gives a durable fluorescent upgrade for flat mount applications. The Dual Series offers 150° spread for a full lighting spread.



PART #	MIL-SWD1220	MIL-SWD1220F	MIL-SWD2440	MIL-SWD2440F	MIL-SWD3660	MIL-SWD3660F	MIL-SWD4880	MIL-SWD4880F
STOCK CODE	9126964	9160263	9126943	9160246	9126135	9160437	9126227	9160629
LENS	Clear	Frosted	Clear	Frosted	Clear	Frosted	Clear	Frosted
LENGTH	11.81"/300 mm	11.81"/300 mm	23.62"/600 mm	23.62"/600 mm	35.43"/900 mm	35.43"/900 mm	47.24"/1200 mm	47.24"/1200 mm
RAW LUMENS	1,750 lm	1,750 lm	3,500 lm	3,500 lm	5,250 lm	5,250 lm	7,000 lm	7,000 lm
EFFECTIVE LUMENS	~1,225 lm	~1,225 lm	~2,450 lm	~2,450 lm	~3,675 lm	~3,675 lm	~4,900 lm	~4,900 lm
WATTAGE	20	20	40	40	60	60	80	80
AMP DRAW (24V)	0.83A	0.83A	1.67A	1.67A	2.5A	2.5A	3.33A	3.33A
WEIGHT	5.80 lb/2.63 kg	5.80 lb/2.63 kg	11.60 lb/5.26 kg	11.60 lb/5.26 kg	17.00 lb/7.71 kg	17.00 lb/7.71 kg	22.60 lb/10.25 kg	22.60 lb/10.25 kg

Technical Information

WARRANTY	Extended
HEIGHT	4.68"/118.8mm
DEPTH	1.31"/33.6mm
INPUT VOLTAGE	24V DC 90-480V AC w/Optional Inverter
IP RATING	IP-68
VIBRATION RATING	15.6 G _{RMS}
OPERATING TEMP	-20 Celsius ~ +40 Celsius
LED COLOR TEMPERATURE	6000K

Features

- Integrated Electronic Thermal Management
- Weatherproof Deutsch Connector
- Die-Cast Aluminum Housing
- Polycarbonate Lens
- Patent Pending



Shockwave Usage Guide

Interior house lights and track lights for shovels, draglines and harsh building environments. Replaces T8 fluorescent fixture available from 1' to 4' designed specifically for harsh environments.

Shockwave Series Packages

PART #	STOCK CODE	DESCRIPTION	PARTS INCLUDED	VOLTAGE
MIL-SWD1220PS (Clear)	9887449	SHOCKWAVE DUAL MINING INDUSTRIAL LIGHT 12" LENGTH 20 WATT	XPC-P5150-24 X 1, P-SWD12AC x1, P-JBOXAC x1	90-277 AC
MIL-SWD1220FPS (Frosted)	9887456			
MIL-SWD2440PS (Clear)	9887463	SHOCKWAVE DUAL MINING INDUSTRIAL LIGHT 24" LENGTH 40 WATT	XPC-P5150-24 X 1, P-SWDAC X 1, P-JBOXAC x1	90-277 AC
MIL-SWD2440FPS (Frosted)	9887470			
MIL-SWD3660PS (Clear)	9887487	SHOCKWAVE DUAL MINING INDUSTRIAL LIGHT 36" LENGTH 60 WATT	XPC-P5150-24 X 1, P-SWDAC X 1, P-JBOXAC x1	90-277 AC
MIL-SWD3660FPS (Frosted)	9887494			
MIL-SWD4880PS (Clear)	9887500	SHOCKWAVE DUAL MINING INDUSTRIAL LIGHT 48" LENGTH 80 WATT	XPC-P5150-24 X 1, P-SWDAC X 1, P-JBOXAC x1	90-277 AC
MIL-SWD4880FPS (Frosted)	9887517			
MIL-SWS1210PS (Clear)	9887524	SHOCKWAVE SINGLE MINING INDUSTRIAL LIGHT 12" LENGTH 10 WATT	XPC-P5150-24 X 1, P-SWS12AC X 1, P-JBOXAC x1	90-277 AC
MIL-SWS1210FPS (Frosted)	9887531			
MIL-SWS2420PS (Clear)	9887548	SHOCKWAVE SINGLE MINING INDUSTRIAL LIGHT 24" LENGTH 20 WATT	XPC-P5150-24 X 1, P-SWSAC X 1, P-JBOXAC x1	90-277 AC
MIL-SWS2420FPS (Frosted)	9887555			
MIL-SWS3630PS (Clear)	9887562	SHOCKWAVE SINGLE MINING INDUSTRIAL LIGHT 36" LENGTH 30 WATT	XPC-P5150-24 X 1, P-SWSAC X 1, P-JBOXAC x1	90-277 AC
MIL-SWS3630FPS (Frosted)	9887579			
MIL-SWS4840PS (Clear)	9887586	SHOCKWAVE SINGLE MINING INDUSTRIAL LIGHT 48" LENGTH 40 WATT	XPC-P5150-24 X 1, P-SWSAC X 1, P-JBOXAC x1	90-277 AC
MIL-SWS4840FPS (Frosted)	9887593			



SHOCKWAVE SINGLE PANEL LED LIGHT

Modular LED Upgrade for Fluorescent



MIL-SWS1210F Shown

Shockwave Single Series

The Shockwave gives a durable fluorescent upgrade for flat mount applications. The Single Series offers 120° spread for a full lighting spread.



PART #	MIL-SWS1210	MIL-SWS1210F	MIL-SWS2420	MIL-SWS2420F	MIL-SWS2620	MIL-SWS2620F	MIL-SWS4840	MIL-SWS4840F
STOCK CODE	9126596	9160611	9126688	9160703	9126770	9160796	9126862	9160888
LENS	Clear	Frosted	Clear	Frosted	Clear	Frosted	Clear	Frosted
LENGTH	11.81"/300 mm	11.81"/300 mm	23.62"/600 mm	23.62"/600 mm	35.43"/900 mm	35.43"/900 mm	47.24"/1200 mm	47.24"/1200 mm
RAW LUMENS	875 lm	875 lm	1,750 lm	1,750 lm	2,625 lm	2,625 lm	3,500 lm	3,500 lm
EFFECTIVE LUMENS	~613 lm	~613 lm	~1,225 lm	~1,225 lm	~1,838 lm	~1,838 lm	~2,450 lm	~2,450 lm
WATTAGE	10	10	20	20	30	30	40	40
AMP DRAW (24V)	42A	42A	0.83A	0.83A	1.25A	1.25A	1.67A	1.67A
WEIGHT	3.10 lb/1.41 kg	3.10 lb/1.41 kg	-6.2 lb/2.8 kg	-6.2 lb/2.8 kg	-9.2 lb/4.17 kg	-9.2 lb/4.17 kg	-12.2 lb/5.53 kg	-12.2 lb/5.53 kg

Technical Information

WARRANTY	Extended
HEIGHT	2.56"/65 mm
DEPTH	1.73"/44 mm
INPUT VOLTAGE	24V DC 90-480V AC w/Optional Inverter
IP RATING	IP-68
VIBRATION RATING	15.6 G _{avg}
OPERATING TEMP	-20 Celsius ~ +40 Celsius
LED COLOR TEMPERATURE	6000K

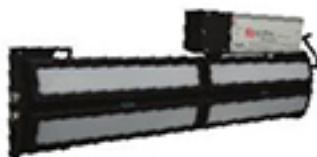
Features

- Integrated Electronic Thermal Management
- Weatherproof Deutsch Connector
- Die-Cast Aluminum Housing
- Polycarbonate Lens
- Patent Pending



P&H Mount

The Shockwave P&H Mount allows direct replacement for cabin lighting.



PART #	MIL-SWD2448PPH
STOCK CODE	9887609
USE	P&H OE Replacement

Optional AC/DC Converter

High voltage inverters support up to 480V of AC input.



PART #	XPC-P5150-24*	XPC-P5150-HV-24*
STOCK CODE	4888236	9887371
INPUT VOLTAGE	90-277V AC	180-480V AC
OUTPUT VOLTAGE	24V DC	24V DC
WATTAGE	150	150
MAX AMP DRAW (24V)	6.25A	6.25A

*Requires Additional Mount for Light

UNIVERSAL LIGHTING

LED POD LIGHT

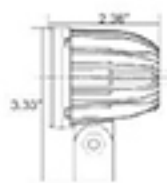
Compact 10 Watt LED for Universal Applications



XIL-SP140 Shown

Solstice Prime Pod Series

The Solstice Prime Solo Pod offers area lighting for universal applications. The Solo provides powerful ladder, platform, and entrance lighting.



PART #	XIL-SP110	XIL-SP120	XIL-SP140
STOCK CODE	4008820	4008822	4008829
BEAM	10° Narrow	20° Medium	40° Wide

Technical Information

WARRANTY	Extended
RAW LUMENS	860 lm
EFFECTIVE LUMENS	602 lm
WATTAGE	10
WEIGHT	0.70 lb/0.32 kg
LED LIFE SPAN	50,000 Hours
DIMENSIONS	2.16" x 3.33" x 2.36" 55 mm x 84.5 mm x 60 mm
INPUT VOLTAGE	9-48V DC
AMP DRAW (24V)	0.42A
IP RATING	IP-68
VIBRATION RATING	15.6 G
OPERATING TEMP	-40 Celsius - +80 Celsius
LED COLOR TEMPERATURE	6000K

Features

- Integrated Electronic Thermal Management (ETM)
- Next Gen LED is Driven to 90% Efficiency
- Radial Fins Optimize Heat Dissipation
- PWM Integrated Dimming Circuitry
- Weatherproof Deutsch Connector
- Die-Cast Aluminum Housing
- Polycarbonate Lens
- Patent Pending



Solo LED Pod Usage Guide

Adds area lighting with 40° beam pattern for flood applications as well as auxiliary lighting for multiple applications.

UNIVERSAL LED PRO POD

Compact LED Light for Universal Applications



XIL-PDW Shown

PART #	XIL-PDW	XIL-PDA	XIL-PDB	XIL-PDG	XIL-PDR
STOCK CODE	9136127	9136219	9136301	9136394	9136486
COLOR	White	Amber	Blue	Green	Red

Technical Information

WARRANTY	Standard
RAW LUMENS	140 lm
EFFECTIVE LUMENS	128 lm
WATTAGE	2
WEIGHT	0.20 lb/0.09 kg
LED LIFE SPAN	30,000 Hours
POD DIAMETER	1.76"/44.7 mm
INPUT VOLTAGE	9-32V DC
AMP DRAW (24V)	0.08A
IP RATING	IP-68
VIBRATION RATING	8.6 G _{rms}
OPERATING TEMP	-40 Celsius ~ +80 Celsius

Features

- Low Power Consumption
- Colored LEDs
- Strobe Mode Available



UNIVERSAL LED FLOOD LIGHT

120° Flood For Universal Applications



XIL-UF32 Shown

PART #	XIL-UF32	XIL-UF32A	XIL-UF32B	XIL-UF32C	XIL-UF32R
STOCK CODE	4891824	9119298	9121185	9121277	9121369
COLOR	White	Amber	Blue	Green	Red

Technical Information

WARRANTY	Standard
RAW LUMENS	500 lm
EFFECTIVE LUMENS	456 lm
WATTAGE	6
LED LIFE SPAN	50,000 Hours
DIMENSIONS	3.40" x 1.91" x 0.91" 86 mm x 49 mm x 23 mm
INPUT VOLTAGE	12-32V DC
AMP DRAW (24V)	0.25A
IP RATING	IP-68
VIBRATION RATING	8.6 G _{rms}
OPERATING TEMP	-40 Celsius ~ +80 Celsius

Features

- Low Power Consumption At Only 0.5A
- Colored LEDs Available
- 32° Wide Angle LEDs



UNIVERSAL STROBE BEACON

360° Universal Lightweight Strobe



XIL-UBA Shown

PART #	XIL-UBA	XIL-UBB	XIL-UBC	XIL-UBR	XIL-UBW
STOCK CODE	4892111	4892128	4892289	4892135	4891831
COLOR	Amber	Blue	Green	Red	White

Technical Information

WARRANTY	Standard
RAW LUMENS	252 lm
WATTAGE	3.6
WEIGHT	0.44 lb/0.2 kg
LED LIFE SPAN	50,000 Hours
DIMENSIONS	5.25" x 3.81" x 2.86" 133 mm x 97 mm x 73 mm
INPUT VOLTAGE	12-32V DC
AMP DRAW (24V)	0.15A
IP RATING	IP-65
VIBRATION RATING	15.6 G _{rms}
OPERATING TEMP	-40 Celsius ~ +80 Celsius

Features

- Clear Lens With Colored LEDs Produce More Light
- Shatterproof Polycarbonate Lens
- Magnetic Base Standard

