



Vision

Global Lighting Systems

visionxeurope

LIGHTING EVOLVED

www.VISIONX-EUROPE.com

2015 Industrial Guide

VISION X LIGHTING INDUSTRIAL COMMERCIAL

VISION X LIGHTING FACILITY LOCATIONS



VISION X USA
- SEATTLE, USA
Global Sales and Marketing
Worldwide Distribution
Product Design
Engineering



VISION X EUROPE
- BRUSSELS, BE
European Market Development
European Distribution
Easy Stock Access for Europe
Market



VISION X ASIA
- SEOUL, S. KOREA
Product Development
Product Engineering
Manufacturing
Testing

CONTINUOUS IMPROVEMENT

ISO

Vision X Meets ISO 9001, ISO 14001 Standards
Vision X répond aux normes ISO 9001/14001

HAZCOM

Certified HAZCOM Program
Certifié HAZCOM Programme

15

Years of Experience with Finding Lighting Solutions
Années d'expérience dans la recherche de solutions d'éclairage

127

Vision X Lights are Active in 127 Countries Worldwide
Vision X est actif dans 127 pays sur l'ensemble des différents continents

ECOPROFIT

Award Winning Factory for Environmental Responsibility
Notre Usine a reçu une distinction pour son respect de l'environnement

Photo Biological

All Lights are Photo Biologically Tested Safe for Human Skin and Eyes
Nos phares ont été testés et approuvés, ils ne comportent aucun risque pour la peau et les yeux

LIGHTING EVOLVED LED INITIATIVE PROGRAM

Sécurité - Safety

- IEC 62471 Photo Biological Tested - No Effect on Human Eye or Skin
 - 5000k 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
- IEC 62471 Test biologique approuvé - Aucun effet sur l'œil humain et/ou la peau
 - Couleur de température 5000k - réduit la fatigue de l'opérateur
 - Courant basse tension - Élimine les risques d'électrocutions
 - Boîtier équipé d'un régulateur de température - Évite les risques de brûlures au touché
 - Plus de puissance lumineuse - Réduction des accidents dus aux zones sombres
 - Conforme RoHS - ne contient ni plomb ni mercure



Preventative Maintenance - Maintenance Préventif

- Long Life LED Exceeds Half Engine Life
 - Solid State Components Completely Resist Vibration
 - Low Startup Current Draw Reduces Wear on Associated Components
 - Built-In Thermal Management Prevents Overheating
 - IP-69K Rated Housings for Superior Ingress Protection
- Longue durée de vie des LED
 - Composants ultra-solides résistants aux vibrations
 - Faible consommation de courant au démarrage
 - Le système de gestion des températures empêche les surchauffes
 - Protection IP69K pour une meilleure étanchéité



Cost Savings - Economies des coûts

- 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
- Moins coûteux que les systèmes classiques
 - Fiabilité accrue pour éliminer les risques de pannes
 - Réduit ou supprime les entretiens sur les projecteurs
 - Augmentation de la productivité grâce à plus de confort visuel



Environment

- RoHS Compliant Electronics
 - Contains No Lead or Mercury
 - Reduced CO₂ Emissions
 - No Hazardous Disposal Required
 - Reduce Light Pollution
- Conforme aux règles en matière RoHS
 - Ne contient ni mercure ni plomb
 - Réduit les émissions de CO₂
 - Ne contient aucun produit chimique
 - Réduit la pollution émise par les projecteurs



COMPREHENSIVE LIGHTING SYSTEMS



OPEN PIT

- Haul Trucks
- Rope Shovels
- Hydraulic Shovels
- Dozers
- Drag Lines
- Graders
- Drill Rigs
- Loaders

UNDERGROUND

- Haul Trucks
- Jumbos
- Bolters
- Muckers
- Loaders
- Concrete Sprayers
- Graders
- Utility Carriers

STRUCTURAL

- Work Shops
- Wash Bays
- Roasters
- SX/EW
- Crushers
- Haul Roads
- Exterior Building
- Low Bay / Mezzanine

SUPPORT EQUIPMENT

- Light Plant Retro Fit
- Lube Trucks
- Tire Carriers
- Work Trucks
- Conveyor Systems
- Trams
- Drills



ADVANCED TECHNOLOGY

BEAM PATTERNS - FAISCEAUX LUMINEUX

- Developed in consultation with industry leaders to meet specific needs and provide for the most control of the light source.
- Elaborer en consultation avec les leaders de l'industrie pour répondre aux besoins spécifiques et d'assurer un excellent contrôle de la lumière.

10 Degree
Spot light applications



25 Degree
Long range flood applications



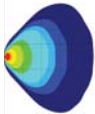
40 Degree
Medium range flood applications



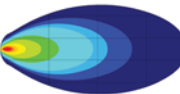
60 Degree
High beam open pit flood applications and work lighting



90 Degree
High beam underground flood applications and work lighting



3065 Elliptical
30°/65° low beam driving and tramming light

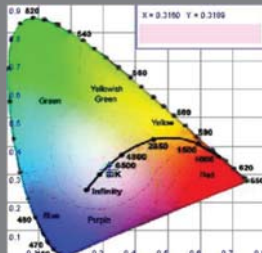


PART NUMBER EXPLANATION

Example			
MXL	-	PMX	- 30 - 60
Technology		Series	# of LED Beam Pattern
Technology			
MXL	Maning Xtreme LED	10	10° Optic
MIL	Mining LED	25	25° Optic
XIL	Commercial LED	40	40° Optic
		60	60° Optic
		90	90° Optic
		e3065	30°/65° Elliptical

LIGHT TEMPERATURE

- Vision X MIL Series lights are designed to produce the best operating conditions for operator safety and efficiency. The way this is done is through providing light at 5000k to ensure bright working conditions in both clear and dusty environments.
- Les projecteurs de la série MIL sont conçus pour offrir les meilleurs modes de fonctionnement afin d'améliorer la sécurité et l'efficacité de l'opérateur. En fournissant une intensité de lumière de 5000K (day light) vous obtiendrez des environnements lumineux quelles que soient les conditions de travail.



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.
-  Notre objectif est d'être fournisseur de solutions. Dans ce cadre, nous mettons l'accent sur le conseil, l'intervention sur site, le support à nos clients pour trouver des solutions d'éclairage par la compréhension de l'environnement et fournir la combinaison parfaite de produits qui répondent à vos besoins.



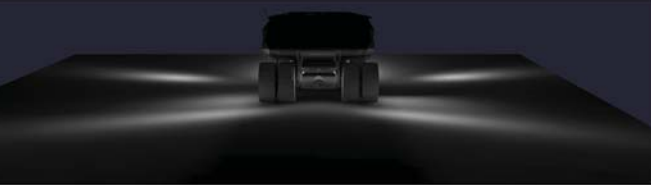
Analysis Creating The Solution

-  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.
-  Nos capacités d'analyse 3D en CAO permettent à VisionX de recréer les rayonnements et l'intensité des faisceaux lumineux. Ceci nous permet de simuler un rendu fiable des faisceaux lumineux sur n'importe quel type de véhicule ou construction dès les premières étapes de création pour mieux vous conseiller ou vous aider à adapter votre design.

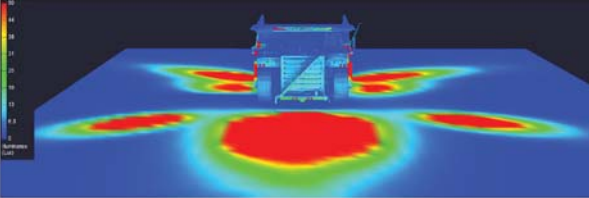
Simulation Color Front View



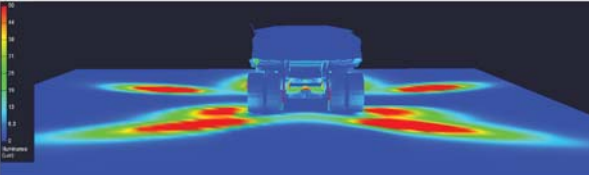
Simulation Color Rear View



Pseudo Color Front View



Pseudo Color Rear View

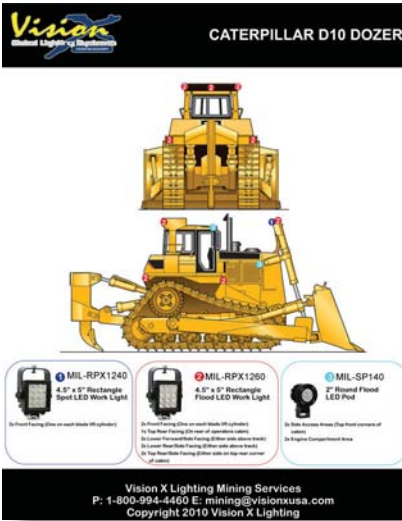


60
Vision X Lighting takes
60 days to get from concept to production

7
Vision X Lighting can be found in use on 7 continents

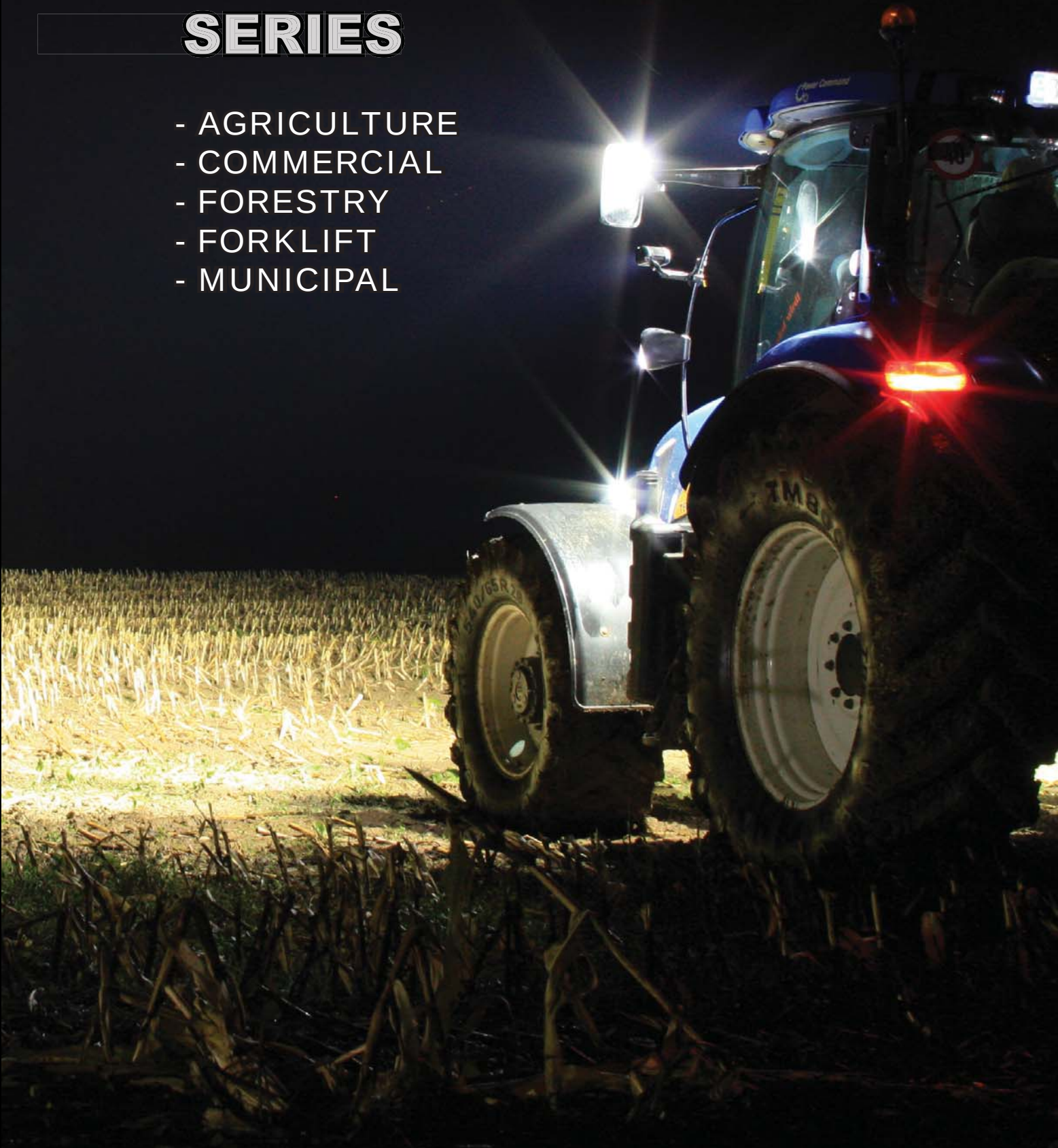
Lighting Placement Guides Custom Solution Manuals

-  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.
-  Vision X développe vos manuels opérationnels afin de vous assurer un montage aisé par vos opérateurs, identifier la meilleure configuration de montage pour vous assurer la meilleure performance lumineuse.



UTILITY SERIES

- AGRICULTURE
- COMMERCIAL
- FORESTRY
- FORKLIFT
- MUNICIPAL



KEY FACTS
5 Watt Xtreme Lighting
The Duralux uses 5 Watt LEDs for the combination of the most distance and most intense light output.

Commercial Lighting
The Duralux was designed with fleet vehicles in mind. Reducing cost, reducing energy consumption, and boosting output at an attractive price.

High Output
Get more light output than a 100 watt halogen light while drawing less power and reducing wear on associated components.

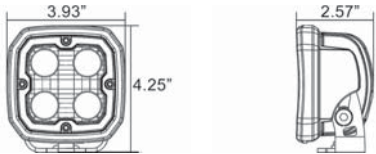
Die-Cast Aluminum
Die-cast aluminum provides strength for commercial applications. Better protection for the light maintains longer lifespan and efficiency.

DURALUX 4 LED WORK LIGHT

High Performance LED Work Light



Duralux Series
The Duralux Series combines durability and affordability for on-the-job light.



DURA-460 Shown

ITEM #	DURA-440	DURA-460
PART # (Stock Code)	9141619	9141527
BEAM PATTERN	40° Wide	60° Extra Wide

Technical Information

WARRANTY	Extended
RAW LUMENS	1,972 lm
EFFECTIVE LUMENS	1,380 lm
WATTAGE	20
WEIGHT	1.50 lb/.68 kg
LED LIFESPAN	50,000 Hours
DIMENSIONS	3.94" x 2.57" x 4.24" 100 mm x 65.5 mm x 107.6 mm
INPUT VOLTAGE	11-65V DC
AMP DRAW (12V)	1.67A
IP RATING	IP-68
VIBRATION RATING	8.6 G _{rms}
OPERATING TEMP	-40 Celsius ~ +80 Celsius

Features

- Reduced Power Draw Reduces Wear on Associated Parts
- Reduced Power Draw Can Lead to Fuel Savings
- Low Power Consumption at Just 1.6A (12V)
- DURAE-440Available with E-mark Approval
- More Light Than a 100W Halogen
- Weatherproof Deutsch Connector
- Die-Cast Aluminum Housing



40° Wide Beam



60° Extra Wide Beam



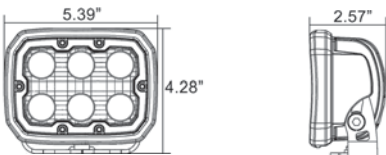


DURALUX 6 LED WORK LIGHT

High Performance LED Work Light



Duralux Series
The Duralux Series is combines durability and afford-ability for on-the-job light.



DURA-660 Shown

ITEM #	DURA-640	DURA-660
PART # (Stock Code)	9888378	9888385
BEAM PATTERN	40° Wide	60° Extra Wide

Technical Information

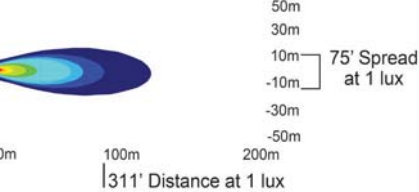
WARRANTY	Extended
RAW LUMENS	2,958 lm
EFFECTIVE LUMENS	2,071 lm
WATTAGE	30
WEIGHT	2.10 lb/0.95 kg
LED LIFESPAN	50,000 Hours
DIMENSIONS	5.39" x 2.57" x 4.28" 136.7 mm x 69 mm x 106.5 mm
INPUT VOLTAGE	11-65V DC
AMP DRAW (12V)	2.5A
IP RATING	IP-68
VIBRATION RATING	8.6 G _{rms}
OPERATING TEMP	-40 Celsius ~ +80 Celsius

Features

- Reduced Power Draw Reduces Wear on Associated Parts
- Reduced Power Draw Can Lead to Fuel Savings
- Low Power Consumption at Just 1.6A (12V)
- More Light Than a 100W Halogen
- Long Lasting Aluminum Housing
- Industrial Grade Warranty



40° Wide Beam



60° Extra Wide Beam



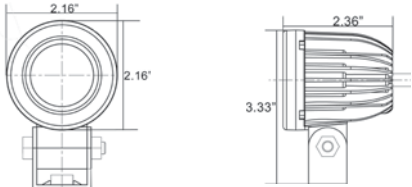
SOLSTICE SOLO PRIME 2" LED POD

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	4008830	4009882	4009899
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 LIFESPAN	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 _{rms}
OPERATING TEMP	-40 Celsius ~ +80 Celsius
LED COLOR TEMPERATURE	6000K

Features

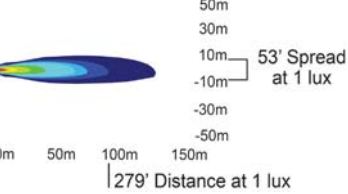
- Integrated Electronic Thermal Management (ETM)
- Next Gen LED is Driven to 90% Efficiency
- Radial Fins Optimize Heat Dissipation
- PWM Integrated Dimming Circuitry
- Weatherproof Deutsch Connector
- Die-Cast Aluminum Housing
- Polycarbonate Lens
- Patent Pending



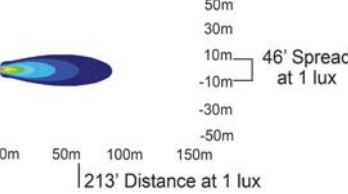
Solo LED Pod Usage Guide

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

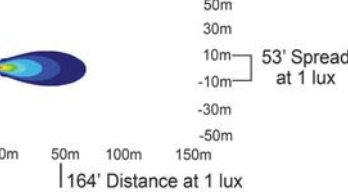
10° Narrow Beam



20° Narrow Beam



40° Medium Beam





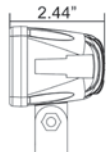
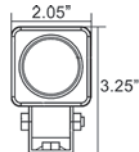
NEW SOLSTICE SOLO 2" LED POD

New LED and Optics in Same Great Compact Housing



XIL-S1110 Shown

New Solstice Solo Pod Series
The Solstice Solo redesigned with new LED technology and optics for a refreshed take on the classic Solo Pod.



ITEM # 10° BEAM	XIL-S1110	XIL-S1110W
PART # (Stock Code)	9888156	9888194
ITEM # 30° BEAM	XIL-S1130	XIL-S1130W
PART # (Stock Code)	988163	9888200
ITEM # 60° BEAM	XIL-S1160	XIL-S1160W
PART # (Stock Code)	9888170	9888217
ITEM # 30°/65° BEAM	XIL-S11e3065	XIL-S11e3065W
PART # (Stock Code)	9888187	9888224
COLOR	Black	White



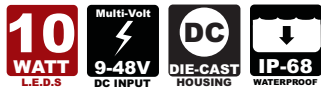
NEW PRODUCT CODE AND OPTICS

Technical Information

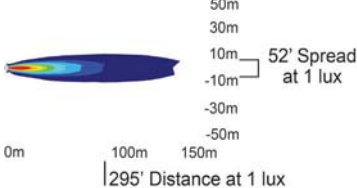
WARRANTY	Extended
RAW LUMENS	860 lm
EFFECTIVE LUMENS	602 lm
WATTAGE	10
WEIGHT	0.76 lb/0.34 kg
LED LIFESPAN	50,000 Hours
DIMENSIONS	2.16" x 3.33" x 2.36" 55 mm x 84.5 mm x 60 mm
INPUT VOLTAGE	9-48V DC
AMP DRAW (12V)	0.83A
IP RATING	IP-68
VIBRATION RATING	8.6 G _{rms}
OPERATING TEMP	-40 Celsius ~ +80 Celsius

Features

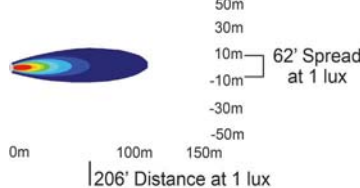
- Mounting and Application Accessories Available
- Expand to Create Multiple Bar Solutions
- Less than 1 Amp Power Consumption
- Omni-Link Interlocking System
- Adjustable Mounting Bracket
- Die-Cast Aluminum Housing
- Polycarbonate Lens
- Patent # D610,725 S



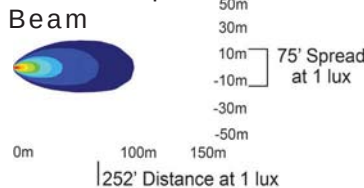
10° Narrow Beam



30° Wide Beam



30/65° Elliptical Beam



KEY FACTS

5 Watt Xtreme Lighting

The Utility Market Series uses 5 Watt LEDs for the combination of the most distance and most intense light output.

Commercial Lighting

The UM Series was designed to provide superior light output while reducing cost, reducing energy consumption, and boosting output at an attractive price.

High Output

Get more light output than a 100 watt halogen light while drawing less power and reducing wear on associated components.

Die-Cast Aluminum

The die-cast aluminum housing provides strength and durability for commercial applications or use in factory replacement applications.



4" ROUND XTREME PRIME LED LIGHT

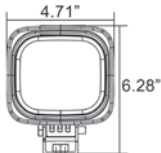
Xtreme Light Output OE Upgrade for Commercial/Industrial

Utility Market Series

Square housing for commercial and industrial vehicles to improve safety and light output with 5 watt LED delivering 90% efficiency.



XIL-UMX4460 Shown



ITEM #	XIL-UMX4410	XIL-UMX4440	XIL-UMX4460
PART # (Stock Code)	4004726	9118390	9118482
BEAM PATTERN	10° Narrow	40° Wide	60° Extra Wide

Technical Information

WARRANTY	Extended
RAW LUMENS	3,451 lm
EFFECTIVE LUMENS	2,202 lm
WATTAGE	35
WEIGHT	2.43 lb/1.1 kg
LED LIFESPAN	50,000 Hours
DIMENSIONS	4.71" x 3.97" x 3.14" 119.56 mm x 108.8 mm x 80 mm
INPUT VOLTAGE	11-65V DC
AMP DRAW (12V)	3.8A
IP RATING	IP-68
VIBRATION RATING	15.6 G _{rms}
OPERATING TEMP	-40 Celsius ~ +80 Celsius

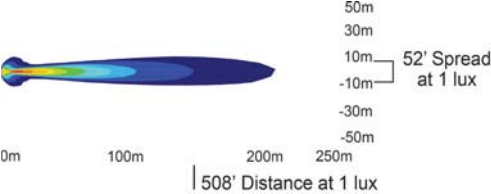
Features

- Xtreme Five Watt LED is Drive to 90% Efficiency
- Available with 3-Watt LEDs for Low Amp Draw
- Convection Vertical Heat Sink Design
- Available Swivel Mount and Handle
- Integrated Deutsch Connector
- Die-Cast Aluminum Housing
- Polycarbonate Lens
- Patent Pending



AVAILABLE IN ROUND

10° Narrow Beam



40° Wide Beam





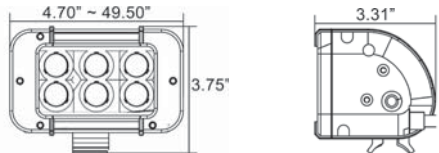
XMITTER PRIME XTREME SINGLE STACK LED LIGHT BAR

Xtreme Output for Increased Distance and Spread

Xmitter Prime Xtreme Single Stack Series
The Xmitter Prime Double Stack features 2 rows of 5 watt LED to provide the most powerful output in a single stack light bar.



12" XIL-PX1810 Shown



ITEM # 10° BEAM	XIL-PX610	XIL-PX1210*	XIL-PX1810	XIL-PX3010*	XIL-PX3610*	XIL-PX5410	XIL-PX7210	XIL-PX9010
PART # (Stock Code)	9117409	9115603	9115788	9116860	9117041	9117225	9117584	9887036
ITEM # 40° BEAM	XIL-PX640	XIL-PX1240*	XIL-PX1840	XIL-PX3040*	XIL-PX3640*	XIL-PX5440	XIL-PX7240	XIL-PX9040
PART # (Stock Code)	9117492	9115696	9115870	911652	9117133	9117317	9117676	9887043
L.E.D.S	6	12	18	30	36	54	72	90
LENGTH	4.70"/120 mm	7.90"/201 mm	11.10"/282 mm	17.50"/444 mm	20.60"/525 mm	30.20"/768 mm	39.80"/1,011 mm	49.37"/1,254 mm
RAW LUMENS	2,958 lm	5,916 lm	8,874 lm	14,790 lm	17,748 lm	26,622 lm	35,496 lm	44,370 lm
EFFECTIVE LUMENS	2,070 lm	4,141 lm	6,211 lm	10,353 lm	12,423 lm	18,635 lm	24,847 lm	31,059 lm
WATTAGE	30	60	90	150	180	270	360	450
AMP DRAW (12V)	2.5A	5A	7.5A	12.5A	15A	22.5A	30A	37.5A
WEIGHT	2.65 lb/1.2 kg	5.29 lb/2.4 kg	6.61 lb/3 kg	9.25 lb/4.5 kg	10.58 lb/4.8 kg	14.55 lb/6.6 kg	18.51 lb/8.4 kg	22.49 lb/10.2 kg

Technical Information

WARRANTY	Extended
LED LIFESPAN	50,000 Hours
HEIGHT	3.75"/95.25 mm
DEPTH	3.31"/84.07 mm
MOUNTING DEPTH	1.50"/38.1 mm
INPUT VOLTAGE	9-32V DC
IP RATING	IP-68
VIBRATION RATING	15.6 G _{rms}
OPERATING TEMP	-40 Celsius ~ +80 Celsius

Features

- Weatherproof Deutsch Connector with Plug and Play Harness
- Integrated Electronic Thermal Management
- Billet Clamp Tube Frame Mounts Available
- Next Gen LED is Driven to 90% Efficiency
- PWM Integrated Dimming Circuitry
- Extruded 6061 Aluminum Housing
- Advanced Heat Sink Design
- Polycarbonate Lens
- Patent # US 7,950,821 B1

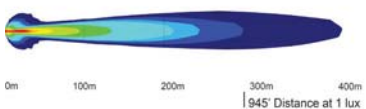


AVAILABLE IN AMBER



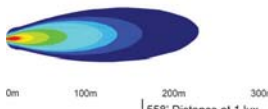
10° Narrow Beam

Data for XIL-PX1810 Shown



40° Wide Beam

Data for XIL-PX1840 Shown



KEY FACTS

5 Watt Xtreme Lighting
The Xmitter Prime uses 5 Watt LED for the combination of the most distance and most intense light output.

Prime Drive Technology
With Prime Drive, Electronic Thermal Management maintains a safe operating temperature for the light without sacrificing output.

Dimming Capability
Pulse Width Modulation circuitry flashes the LED faster than the human eye can see to achieve dimming capability.

Extruded Aluminum
Extruded 6061 Aluminium is used to achieve an ingress Protection rating of IP-68, creating a light bar with unmatched durability.



XMITTER PRIME XTREME DOUBLE STACK LED LIGHT BAR

Xtreme Output for Increased Distance and Spread

Xmitter Prime Xtreme Double Stack Series
The Xmitter Prime Double Stack features 4 rows of 5 watt LED to provide powerful output. Making this this most powerful light bar per inch.



12" XIL-PX2.1810 Shown



ITEM # 10° BEAM	XIL-PX2.610	XIL-PX2.1210	XIL-PX2.1810	XIL-PX2.3010	XIL-PX2.3610
PART # (Stock Code)	9116686	9115962	9116143	9116327	9116501
ITEM # 40° BEAM	XIL-PX2.640	XIL-PX2.1240	XIL-PX2.1840	XIL-PX2.3040	XIL-PX2.3640
PART # (Stock Code)	9116778	9116051	9116235	9116419	9116594
L.E.D.S	12	24	36	60	72
LENGTH	4.70"/120 mm	7.90"/201 mm	11.10"/282 mm	17.50"/444 mm	20.60"/525 mm
RAW LUMENS	5,916 lm	11,832 lm	17,748 lm	29,580 lm	35,496 lm
EFFECTIVE LUMENS	4,141 lm	8,282 lm	12,422 lm	21,647 lm	24,847 lm
WATTAGE	60	120	180	300	360
AMP DRAW (12V)	5A	10A	15A	25A	30A
WEIGHT	4.62 lb/2.1 kg	8.15 lb/3.7 kg	9.92 lb/4.5 kg	13.45 lb/6.1 kg	15.21 lb/6.9 kg

Technical Information

WARRANTY	Extended
LED LIFESPAN	50,000 Hours
HEIGHT	3.94"/123.1 mm
DEPTH	3.66"/93.8 mm
MOUNTING DEPTH	1.50"/38.1 mm
INPUT VOLTAGE	9-32V DC
IP RATING	IP-68
VIBRATION RATING	15.6 G _{rms}
OPERATING TEMP	-40 Celsius ~ +80 Celsius

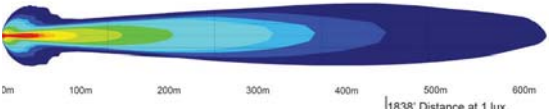
Features

- Weatherproof Deutsch Connector with Plug and Play Harness
- Integrated Electronic Thermal Management
- Billet Clamp Tube Frame Mounts Available
- Next Gen LED is Driven to 90% Efficiency
- PWM Integrated Dimming Circuitry
- Extruded 6061 Aluminum Housing
- Advanced Heat Sink Design
- Polycarbonate Lens
- Patent # US 7,950,821 B1



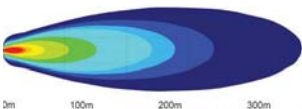
10° Narrow Beam

Data for XIL-PX2.1810 Shown



40° Wide Beam

Data for XIL-PX2.1840 Shown



KEY FACTS

5 Watt Xtreme Lighting
The Horizon uses 5 Watt LED for the combination of the most distance and most intense light output.

Prime Drive Technology
With Prime Drive, Electronic Thermal Management maintains a safe operating temperature for the light without sacrificing output.

Precision Trunnion Mount
60 point locking trunnion mount allows for precision adjustment for flat mounting, allowing optimal control for transport applications.

Extruded Aluminum
Extruded 6061 Aluminium is used to achieve an ingress Protection rating of IP-68, creating a light bar with unmatched durability.



HORIZON ADJUSTABLE TRUNNION LIGHT

Precision Adjustment Trunnion For Flat Vehicle Mount



CTL-HPX910 Shown



Horizon Prime Xtreme Series
The Horizon Series offers 9, 12 and 18 LED Bar Lighting with 60 point locking trunnion mount for precision aiming.

ITEM # 10° BEAM	CTL-HPX910	CTL-HPX1210	CTL-HPX1810
PART # (Stock Code)	9111469	9111551	9111643
ITEM # 40° BEAM	CTL-HPX940	CTL-HPX1240	CTL-HPX1840
PART # (Stock Code)	9119830	9119656	9119748
L.E.D.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	4.19 lb/1.9 kg	5.95 lb/2.7 kg	6.17 lb/2.8 kg

Technical Information

WARRANTY	Extended
LED LIFESPAN	50,000 Hours
HEIGHT	2.36"/60 mm
DEPTH	3.11"/79mm
MOUNTING DEPTH	3.11"/79mm
INPUT VOLTAGE	9-32V DC
IP RATING	IP-68
VIBRATION RATING	15.6 G _{rms}
OPERATING TEMP	-40 Celsius ~ +80 Celsius

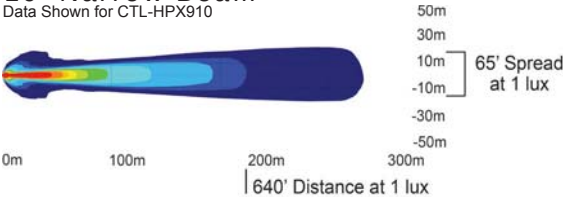
Features

- Weatherproof Deutsch Connector with Plug-and-Play Harness
- Xtreme Five Watt LED is Drive to 90% Efficiency
- Advanced Optics Enhance Distance and Depth
- Integrated Electronic Thermal Management
- CTL-HPX910 Model is E-Mark Approved
- Extruded 6061 Aluminum Housing
- Integrated Deutsch Connector
- Polycarbonate Lens
- Patent Pending



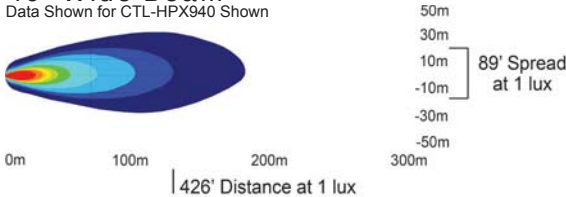
10° Narrow Beam

Data Shown for CTL-HPX910



40° Wide Beam

Data Shown for CTL-HPX940 Shown



TRUCK

- COMMERCIAL

- INDUSTRIAL

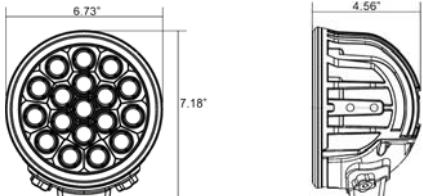


TRANSPORTER 6.7" LED LIGHT

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
L.E.D.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
L.E.D.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	6.39 lb/2.90 kg	6.39 lb/2.90 kg	6.39 lb/2.90 kg

Technical Information

WARRANTY	Extended
RAW LUMENS	9,860 lm
EFFECTIVE LUMENS	6,220 lm
WATTAGE	100
WEIGHT	6.83 lb/3.1 kg
LED LIFESPAN	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



AVAILABLE COVER COLORS



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



MID-DUTY

- AGRICULTURE
- CONSTRUCTION
- FORESTRY



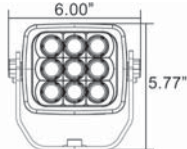
4" EXPLORER PRIME XTREME 9 LED LIGHT

Lightweight Body and Focused Beam For Truck/Transport

Explorer Series
The Explorer is a lightweight yet durable LED for Truck and Transport upgrades.



CTL-EPX910 Shown



ITEM #	CTL-EPX910	CTL-EPX940	CTL-EPX960
PART # (Stock Code)	9111735	9111919	9112008
BEAM PATTERN	10° Narrow	40° Medium	60° Extra Wide

Technical Information

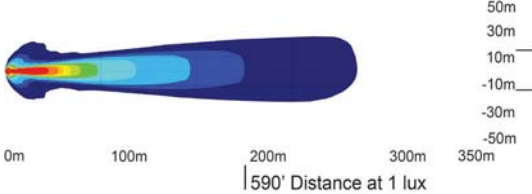
WARRANTY	Extended
RAW LUMENS	4,437 lm
EFFECTIVE LUMENS	2,800 lm
WATTAGE	45
WEIGHT	3.09 lb/1.4 kg
LED LIFESPAN	50,000 Hours
DIMENSIONS	6.00" x 4.13" x 3.13" 152.5 mm x 105 mm x 79.2 mm
INPUT VOLTAGE	11-65V DC
AMP DRAW (12V)	3.8A
IP RATING	IP-68
VIBRATION RATING	15.6 G _{rms}
OPERATING TEMP	-40 Celsius ~ +80 Celsius

Features

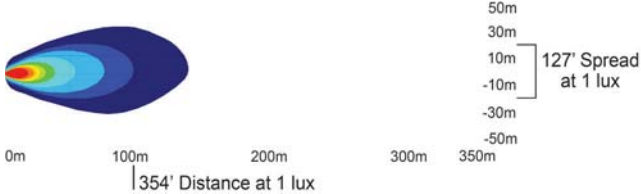
- Integrated Deutsch Connector with Plug-and-Play Harness
- Xtreme Five Watt LED is Drive to 90% Efficiency
- Integrated Electronic Thermal Management
- CTL-EPX910 Model Is E-Mark Approved
- Vertical Fins Maximize Heat Dissipation
- Integrated Deutsch Connector
- Die-Cast Aluminum Housing
- Polycarbonate Lens
- Patent Pending



10° Narrow Beam



40° Narrow Beam



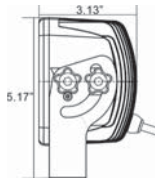
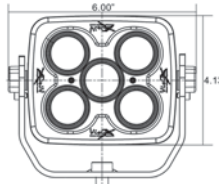
SOLSTICE PRIME 5 LED MOBILE LIGHT

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-SP520 Shown



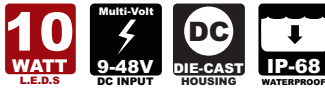
PART #	XIL-SP520	XIL-SP540
STOCK CODE	4009844	4009851
BEAM PATTERN	20° Narrow	40° Wide

Technical Information

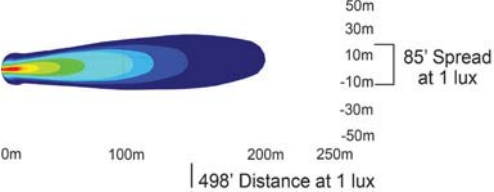
WARRANTY	Extended
RAW LUMENS	4,300 lm
EFFECTIVE LUMENS	3,010 lm
WATTAGE	50
WEIGHT	3.09 lb/1.4 kg
LED LIFESPAN	50,000 Hours
DIMENSIONS	6.00" x 4.13" x 3.13" 152.5 mm x 105 mm x 79.2 mm
INPUT VOLTAGE	9-48V DC
AMP DRAW (24V)	2.08A
IP RATING	IP-68
VIBRATION RATING	8.6 G _{rms}
OPERATING TEMP	-40 Celsius ~ +80 Celsius
LED COLOR TEMPERATURE	6000K

Features

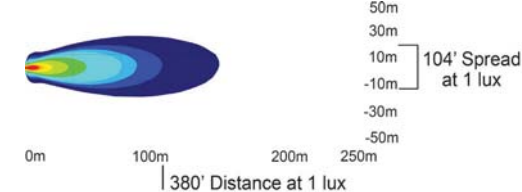
- Next Gen 10 Watt LED Driven to 90% Efficiency
- Integrated Electronic Thermal Management
- Advanced Heat Sink Design
- Integrated Deutsch Connector
- Die-Cast Aluminum Housing
- Polycarbonate Lens
- Patent Pending



20° Narrow Beam



40° Wide Beam



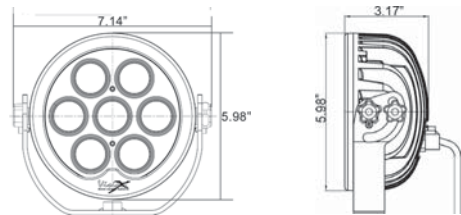


SOLSTICE PRIME 7 LED MOBILE LIGHT

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	70
WEIGHT	4.52 lb/2.05 kg
LED LIFESPAN	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 ₁₀
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

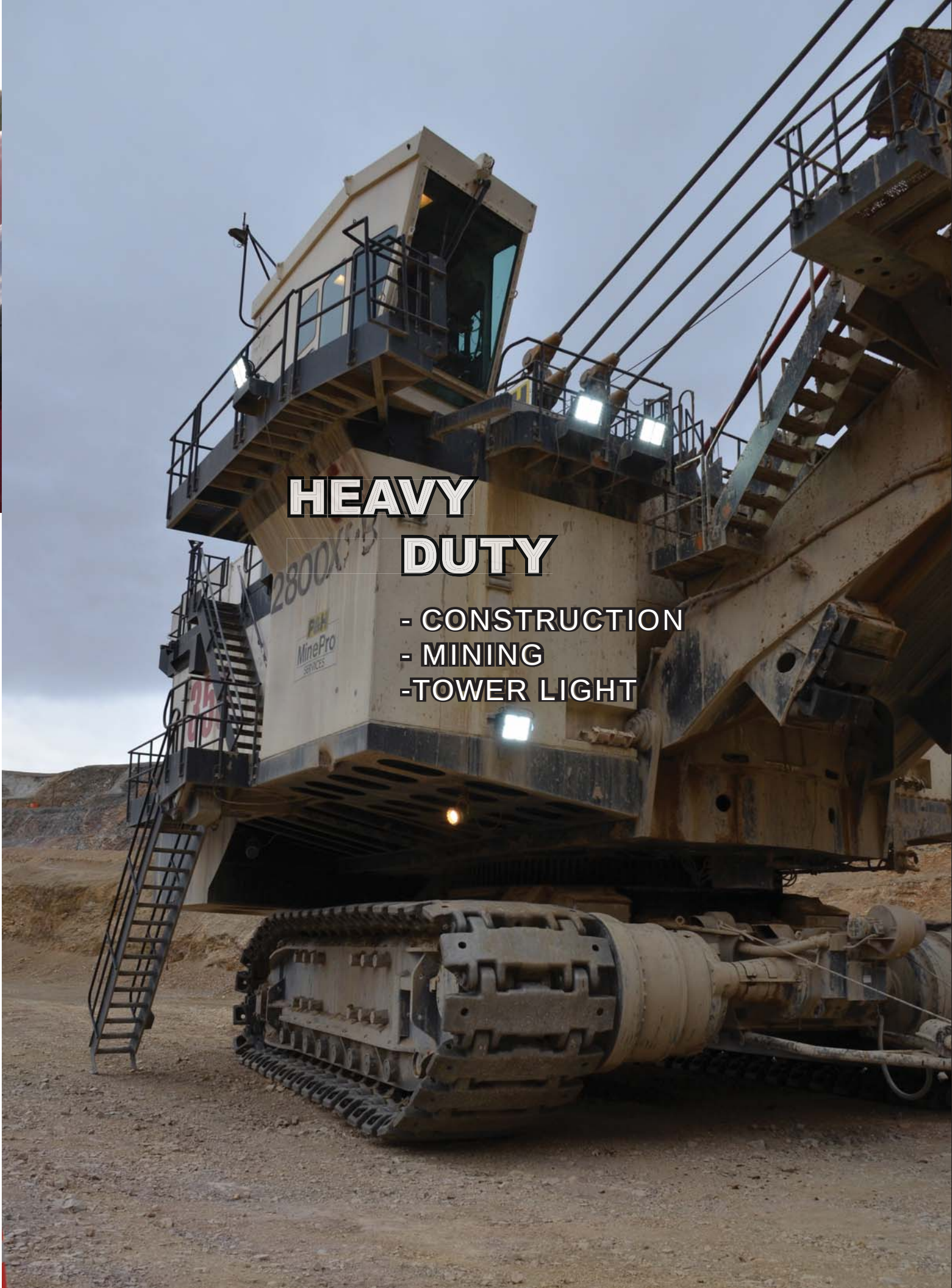


Solstice Prime Series Usage Guide

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.

HEAVY DUTY

- CONSTRUCTION
- MINING
- TOWER LIGHT





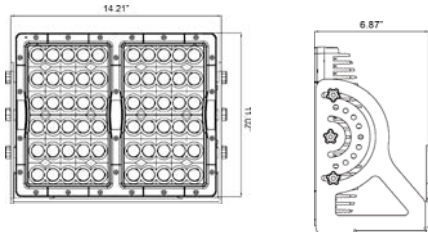
PIT MASTER 60 HPS REPLACEMENT LIGHT

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.



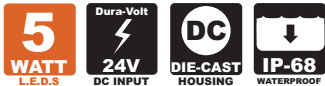
PART #	MIL-PMX6010	MIL-PMX6025	MIL-PMX6040	MIL-PMX6060	MIL-PMX6090	MIL-PMX60E3065
STOCK CODE	9113081	9113173	9113265	9113357	9139906	9113449
BEAM PATTERN	10° Narrow	25° Medium	40° Wide	60° Extra Wide	90° Xtreme Wide	30x65° Elliptical

Technical Information

WARRANTY	Extended
RAW LUMENS	29,580 lm
EFFECTIVE LUMENS	21,647 lm
WATTAGE	300
WEIGHT	29.17 lb/13.23 kg
LED LIFESPAN	50,000 Hours
DIMENSIONS	14.28" 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

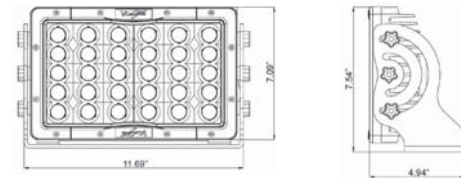
PART #	STOCK CODE	DESCRIPTION	PARTS INCLUDED	VOLTAGE
CXA-PMX3060HPS	9887388	30 LED PIT MASTER MINING INDUSTRIAL LIGHT 60° FLOOD HANGING MOUNT W/ MOUNTED POWER SUPPLY	MIL-PMX3060 X 1 XPC-PS150-24 X 1 P-PMX30HANGINGMOUNT X 1 P-JBOXAC X 1	90-277 AC
CXA-PMX3060FPS	9887395	30 LED PIT MASTER MINING INDUSTRIAL 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 COBRA HEAD 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	90-277 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	90-277 AC

PIT MASTER 30 HPS REPLACEMENT LIGHT

500 Watt Metal Halide Replacement



MIL-PMX3040 Shown



Pit Master 30 Series
The Pit Master series was designed with many applications in mind, reducing power consumption and increasing light output.

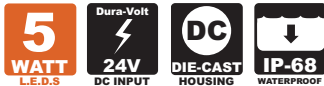
PART #	MIL-PMX3010	MIL-PMX3025	MIL-PMX3040	MIL-PMX3060	MIL-PMX3090	MIL-PMX30E3065
STOCK CODE	9112633	9112725	9112817	9112909	9138107	9112992
BEAM PATTERN	10° Narrow	25° Medium	40° Wide	60° Extra Wide	90° Xtreme Wide	30x65° Elliptical

Technical Information

WARRANTY	Extended
RAW LUMENS	14,790 lm
EFFECTIVE LUMENS	10,727 lm
WATTAGE	150
WEIGHT	11.02 lb/5.6 kg
LED LIFESPAN	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	4008236	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



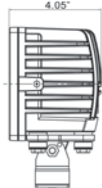
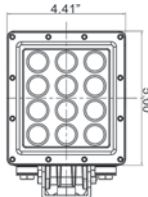
RIPPER 12 HIGH VIBRATION LIGHT

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-RXP12E3065T
STOCK CODE	4009974	4008618	4009981	4009998	9138558	4008335
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 LIFESPAN	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 ~ +80 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



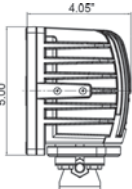
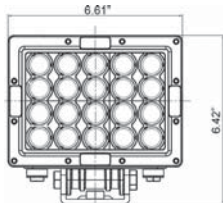
RIPPER 20 HIGH VIBRATION LIGHT

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-RXP20E3065T
STOCK CODE	9114163	9114255	9114347	9114439	9138640	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 LIFESPAN	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

- 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.



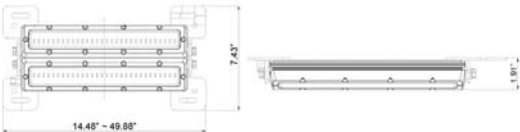
SHOCKWAVE DUAL PANEL LED LIGHT

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	9125954	9150253	9126043	9150345	9126135	9150437	9126227	9150529
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	1.91\"/46.6mm
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\"	XPC-PS150-24 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\"	XPC-PS150-24 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\"	XPC-PS150-24 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\"	XPC-PS150-24 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\"	XPC-PS150-24 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\"	XPC-PS150-24 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\"	XPC-PS150-24 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\"	XPC-PS150-24 X 1, P-SWSAC X 1, P-JBOXAC x1	90-277 AC
MIL-SWS4840FPS (Frosted)	9887593			

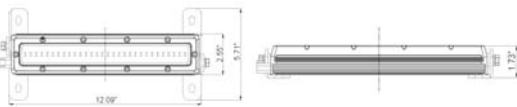
SHOCKWAVE SINGLE PANEL LED LIGHT

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-SWS3630	MIL-SWS3630F	MIL-SWS4840	MIL-SWS4840F
STOCK CODE	9125596	9150611	9125688	9150703	9125770	9150796	9125862	9150888
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 lb4.17 kg	~9.2 lb4.17 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 _{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



P&H Mount

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



PART #	MIL-SWD2440FPH
STOCK CODE	9887609
USE	P&H OE Replacement

Optional AC/DC Converter

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



PART #	XPC-PS150-24*	XPC-PS150-HV-24*
STOCK CODE	4008236	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



LED ACCENT LIGHTING

- UTILITY
- BACK LIGHT
- INTERIOR

KEY FACTS

Touch Enabled
Strip Lights are available in standard (for switched applications) and touch models, which feature 50% Brightness, 100% Brightness and Off modes.

Universal Applications
Strip Lights are perfect for any application where light is needed in tight spaces. From truck bodies to the kitchen.

30,000 Hour LED Life
The LEDs used in the Strip Lights are designed to last more than 30,000 hours. Meaning they will last almost 3.5 years of constant use.

12" Or 7.5" Lengths
Both types of Strip Lights are offered in 12" Length and 7.5" Lengths, in order to fit any application.



UNIVERSAL STRIP LIGHT

Touch Activated or Standard Commercial Design



Strip Light
Flood light for universal applications with ultra light-weight, ultra bright design.

ITEM # TOUCH	XIL-ST7.5	XIL-ST12
PART # (Stock Code)	9167626	9141701
LENGTH	7.4"/189 mm	11.9"/303 mm
RAW LUMENS	141 lm	328 lm
EFFECTIVE LUMENS	129 lm	300 lm
WATTAGE	2	4.2
AMP DRAW (12V)	0.16A	0.35A
WEIGHT	0.1 lb/0.04 kg	0.2 lb/0.09 kg



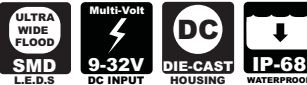
ITEM # STANDARD	XIL-SL7.5	XIL-SL12
PART # (Stock Code)	9167534	9141794
LENGTH	7.4"/189 mm	11.9"/303 mm
RAW LUMENS	141 lm	328 lm
EFFECTIVE LUMENS	129 lm	300 lm
WATTAGE	2	4.2
AMP DRAW (12V)	0.16A	0.35A
WEIGHT	0.1 lb/0.04 kg	0.2 lb/0.09 kg

Technical Information

WARRANTY	Standard
LED LIFESPAN	30,000 Hours
HEIGHT	0.92"/23 mm
DEPTH	0.59"/15 mm
INPUT VOLTAGE	9-32V DC
IP RATING	IP-65
VIBRATION RATING	15.6 G _{rms}
OPERATING TEMP	-40 Celsius ~ +80 Celsius

Features

- Frosted Lens Removes Multiple Shadows
- Sleek Design Fits in Multiple Applications
- Weatherproof Deutsch Connector
- Simple 2-Wire Install
- Die-Cast Aluminum



MINI INCIDENT RESPONSE CASE

Updated Lighter Weight Design and 50% Longer Run Time



The mini incident response case (XLS) comes with three different lighting variations: 2 DURA Work 4 LED Lights, 4 Solo Pod LED Lights or 2 Utility Market Square 7 LED Lights. Producing up to 6,902 lumens, the mini incident response case is the perfect lighting solution for emergency response, flagging stations, roadside assistance, scene lighting and other portable lighting scenarios. The case comes complete with a 12 volt output power source, usable to jump start vehicle batteries, as well as charge the case using the 12 volt power posts.

Technical Information

WARRANTY	Standard
WEIGHT	10.36 lb/4.7 kg
DIMENSIONS	17.5" x 8.0" x 25.0" (W-D-H) 445 mm x 203 mm x 635 mm
DEPLOYED DIMENSIONS	32" x 32" x 96" 813 mm x 813 mm x 2438 mm
CHARGING INPUT VOLTAGE	12V DC or 110-220V AC
POWER SOURCE	XPC-400 - 35Ah Battery
CHARGE TIME	IP-68
OPERATING TEMP	-40 Celsius ~ +60 Celsius

Features

- Sets up in Seconds No Tools Required
- Up to 8 Foot Light Extension (24" Storage Height)
- Provides Light Up to 12 Hours on Full Charge
- Flashing Yellow LED on Base for Added Safety
- Self-Contained Rechargeable Power Cell
- 12V Output Power Source
- Jump Start Vehicle or Charge from Vehicle with 12V Power Posts

ITEM #	XLS-M2DURA460BP	XLS-M4S1160BP	XLS-M2UMX4460BP
PART # (Stock Code)	9891026	9891033	9891040
LIGHT MODEL	2 x DURA-460	4 x XIL-S1160	2 x XIL-UMX4460
RUN TIME	12 Hours	12 Hours	7.5 Hours
RAW LUMENS	3,944 lm	3,440 lm	6,902 lm
WATTAGE	40	40	70



XLS-M2UMX4460BP Shown

FORKLIFT SAFETY LIGHTING _ BLUE LEDS

Safely Indicate When A Forklift is Backing Up Before Being Seen

Utility Market - Blue LED



4" SQUARE ALUMINUM COMMERCIAL DESIGN
BLUE LED SAFETY LIGHT

- Safely Indicate the Forklift In Noisy Environments
- Single Stud Mounting
- Improves Life Safety
- Simple 2 Wire Install
- 9-32V Input Voltage



There are Over 19,000 Liftgate Accidents w/ Pedestrians Each Year

Life safety is always the number one priority in a warehouse of any size. One of the most dangerous pieces of equipment in a warehouse are forklifts. Forklifts will always be a necessary component of the warehouse, so it is important to have employees attentive to the forklift's direction at all times. Employees cannot be attentive of the forklift's direction if it is around a corner or down an aisle. Prevent collisions due to panic-manuevers of the driver nearly avoiding an unaware co-worker.

Blue is the universal color for forklift safety indicators. A blue light shining on the ground indicates that the forklift is backing up. With the blue Utility Market LED light you can indicate from the base of the forklift up to 40' with the adjustable mounting system. The blue UM provides necessary safety for employees working in noisy environments or where ear protection is required and an audible alarm may not be sufficient.

PART #	XIL-UM4410BNF
BEAM	10° Narrow





KEY FACTS

Compact 1.7" Round
The Mini Solo packs a 3 Watt Colored LED into a 1.7" round housing. The Mini Solo is designed for use in almost any application.

High Output
One Mini Solo pod produces 365 effective lumens of light, the highest light output per cubic inch on the market.

Mini Solo Accessories
The Mini Solo has attachable handle mounts, helmet mounts, handlebar mounts as well as battery packs. Perfect for on-the-go light.

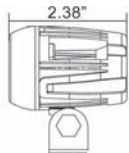
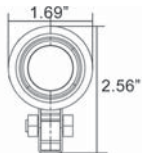
Low Power Draw
The Mini Solo only draws 0.25 amps at 12 volts for an extremely low power draw.

MINI SOLO 1.7" COLORED LED POD
Compact 3-Watt Color LED



XIL-MX110B Shown

Mini Solo Pod Series
The Mini Solo is designed as universal lighting for tight installations, where maximum light output is needed.



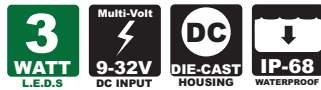
ITEM # 10° BEAM	XIL-MX110B
PART # (Stock Code)	9113531

Technical Information

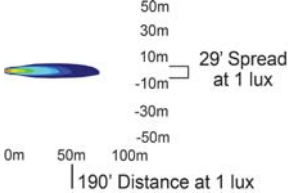
WARRANTY	Extended
RAW LUMENS	493 lm
EFFECTIVE LUMENS	365 lm
WATTAGE	3
WEIGHT	0.40 lb/0.18 kg
LED LIFESPAN	50,000 Hours
DIMENSIONS	1.69" x 2.56" x 2.38" 42.92 mm x 64.77 mm x 59.94 mm
INPUT VOLTAGE	9-32V DC
AMP DRAW (12V)	0.25A
IP RATING	IP-68
VIBRATION RATING	8.6 G _{rms}
OPERATING TEMP	-40 Celsius ~ +80 Celsius

Features

- Highest Light Output Per Cubic Inch on the Market
- Available Omni-Link Connected 3 Pods Together
- Compatible with Select Solo Pod Accessories
- Radial Fins Optimize Head Dissipation
- Weatherproof Duetsch Connector
- Die-Cast Aluminum Housing
- Colored LEDs Available
- Polycarbonate Lens



10° Narrow Beam



CAMERA AND LED LIGHT COMBINED FIXTURE

Relay Video To Monitor With Integrated Camera



VEL-441CA72SS Shown

Video Extreme Light

Designed for use as a reverse light that combines high-output lighting with a high definition camera. With the VEL-M7 7" Monitor, you can safely see what's behind your vehicle while reversing. The 60° Flood beam pattern allows ample coverage of the roadway behind your vehicle. The Video Extreme Light comes standard with a short shield that blocks glare from entering the camera lens, helping produce a clear image.



VEL-4460CA72SS.IR850 Shown



ITEM #	VEL-4460CA72SS	VEL-4460CA72SS.IR850	VEL-M7	VEL-CAMMON7KIT
PART # (Stock Code)	9890739	9889863	9889870	9892733
INCLUDED	Video Extreme Light, Short Shield	Video Extreme Light, Short Shield	7" Video Monitor for Video Extreme Light	Video Extreme Light (6K), Short Shield, 7" Monitor, 20' Cord
LED OUTPUT	6000K (White)	IR (Infrared)	-	6000K (White)
LEDs	6	6	-	6
BEAM PATTERN	60°	60°	-	60°
APPLICATION	Video Extreme LED Light	Video Extreme LED Light	Video Feed Monitor	Video Extreme LED Light
SHIELD	Short Shield Included	Short Shield Included	-	Short Shield Included
CORD LENGTH	6 Feet	6 Feet	-	20 Feet
WARRANTY	Extended	Extended	-	Extended
WATTAGE	30	18	-	30
INPUT VOLTAGE	9-32V DC	9-32V DC	-9-32V DC	9-32V DC
AMP DRAW (12V)	2.5A	2.5A	-	2.5A
DIMENSIONS (L-H-W)	4.71" x 3.97" x 3.14"	4.71" x 3.97" x 3.14"	-	4.71" x 3.97" x 3.14"

Technical Information

IP RATING	IP68
VIBRATION RATING	15.6G rms
OPERATING TEMP	-40 Celsius ~ +85 Celsius
WEIGHT	1.6 Lbs

Features

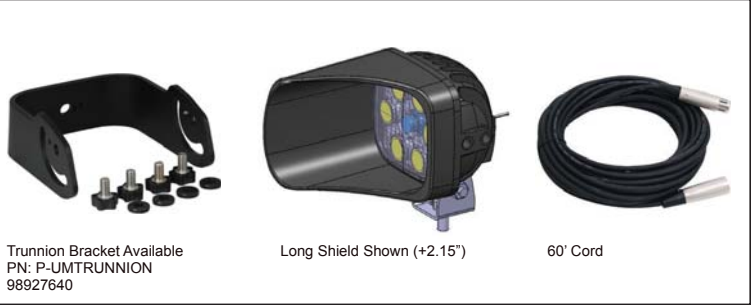
- Illuminates Area While Simultaneously Relaying Video Feed
- Available 7" Monitor For Video Feed (IN: VEL-M7) [Kit Available]
- Durable Acrylic Lens For Clear Video
- Six 5-Watt LEDs For 1,368 Lumens
- Infrared Model Available

VEL-M7 7" Monitor

The Vision X Video Extreme Light can be paired with an available 7" Monitor to relay video feed inside your vehicle. Easily mount the monitor inside the cab of the vehicle and connect it to the Video Extreme Light. Included with the 7" Monitor is a remote to control the settings.



Available Accessories



Trunnion Bracket Available
PN: P-UMTRUNNION
98927640

Long Shield Shown (+2.15")

60' Cord





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 LIFESPAN	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

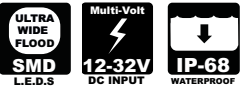
PART #	XIL-UF32	XIL-UF32A	XIL-UF32B	XIL-UF32G	XIL-UF32R
STOCK CODE	4001824	9119298	9121185	9121277	9121369
COLOR	White	Amber	Blue	Green	Red

Technical Information

WARRANTY	Standard
RAW LUMENS	500 lm
EFFECTIVE LUMENS	456 lm
WATTAGE	6
LED LIFESPAN	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



LED PROGRAMABLE VEHICLE ID BOARD

NUMERICAL LED VEHICLE ID SIGN

Magnetic Sensor Changes Numerical LEDs



MIL-ID03A & MIL-ID02R Shown

LED Vehicle ID Board
Available in 3-Digit (117W) or 2-Digit (78W), these vehicle identification boards make communication between operators easier and more efficient. Each LED numerical can be changed via the on-board magnetic sensor and ranges from 0 to 9.



MIL-ID03A Shown

ITEM #	MIL-ID03A	MIL-ID03R	MIL-ID02A	MIL-ID02R
PART # (Stock Code)	9892719	9892184	9892207	9892191
APPLICATION	Vehicle ID Board	Vehicle ID Board	Vehicle ID Board	Vehicle ID Board
INCLUDES	Mounting Bracket, LED Board, Mounting Bolts	Mounting Bracket, LED Board, Mounting Bolts	Mounting Bracket, LED Board, Mounting Bolts	Mounting Bracket, LED Board, Mounting Bolts
COLOR	Amber	Red	Amber	Red
WATTAGE	117	117	78	78
INPUT VOLTAGE	9V-32V	9V-32V	9V-32V	9V-32V
AMP DRAW (12V)	9.75A	9.75A	6.5A	6.5A
DIMENSIONS (L-H-W)	25.9" x 17.3" x 1.42"	25.9" x 17.3" x 1.42"	18.6" x 17.3" x 1.42"	18.6" x 17.3" x 1.42"

Technical Information

WARRANTY	Extended
WEIGHT	3-Digit: 19.41 lb 2-Digit: 12.98 lb

Features

- Numerical LEDs Controlled Via Magnetic Sensor
- Designed For Constant 24 Hour Usage
- Durable Die-Cast Aluminum Housing
- Amber & Red LEDs Available
- Multiple Mounting Locations
- 195 LEDs Per Number
- IP-67K Waterproof

Magnetic Numerical Control Sensor

Changing the number on the MIL-ID LED Board is quick and easy. Simply wave the provided magnet over the square "Magnet" icon near the Vision X logo on the bottom half of the board and the numbers will increase by 1 for each pass of the magnet.





KEY FACTS

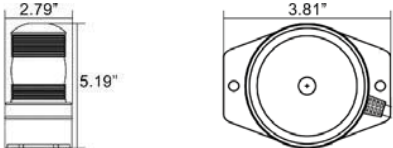
- Safety**
Easily add an LED Strobe beacon to your vehicle or equipment to enable others to see it from all directions.
- Colored LEDs**
The Utility Beacon is available in Amber, Red, Blue, Green and White LEDs to match your needs.
- Low Power Consumption**
With an extremely low power draw of less than an amp, and being battery operated it will put no strain on your vehicle's battery.
- Magnetic Base**
Each Utility Beacon comes standard with a magnetic base, allowing for easy mounting and enables it to be repositioned once wired.

UTILITY MARKET LED STROBE BEACON - 36 LED

Lightweight Strobe For Universal Applications



Utility Strobe Series
Available in 5 colors, the Utility Strobe comes standard with a magnetic base for universal applications.



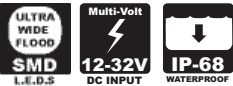
ITEM # (BATTERY)	XIL-UBB36A	XIL-UBB36B	XIL-UBB36G	XIL-UBB36R	XIL-UBB36W
ITEM # (WIRED)	XIL-UB36A	XIL-UB36B	XIL-UB36G	XIL-UB36R	XIL-UB36W
PART # (Stock Code)	TBD	TBD	TBD	TBD	TBD
LED COLOR	Amber	Blue	Green	Red	White

Technical Information

WARRANTY	Extended
RAW LUMENS	504 lm
WATTAGE	7.2
WEIGHT	0.88 lb/0.4 kg
LED LIFESPAN	50,000 Hours
DIMENSIONS	5.25" x 3.81" x 2.86" 133 mm x 97 mm x 73 mm
INPUT VOLTAGE(WIRED)	9-32V DC
AMP DRAW (WIRED)(12V)	0.6A
INPUT VOLTAGE(BATTERY)	9V DC Battery x 2
AMP DRAW (BATTERY)(9V)	0.8A
IP RATING	IP-68
VIBRATION RATING	15.6 G _{rms}
OPERATING TEMP	-40 Celsius ~ +80 Celsius

Features

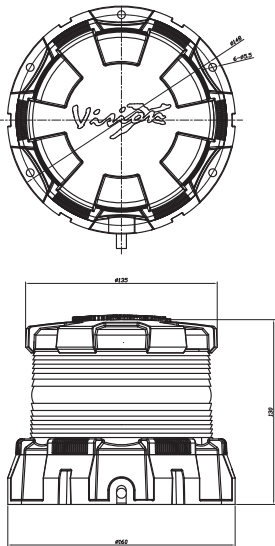
- Utilizes 36 LEDs to Achieve a 360° Pattern
- Shatterproof Polycarbonate Construction
- Weatherproof Deutsch Connector Standard
- Magnetic Base Standard
- Push Button Activated
- No Wiring Required
- Hi-Impact Housing
- Patent Pending



HEAVY DUTY BEACON

Lightweight Strobe For Universal Applications

Heavy Duty Strobe Series
Available in 5 colors for universal applications.



ITEM # (BATTERY)	MIL-HDBBA	MIL-HDBBB	MIL-HDBBG	MIL-HDBBR	MIL-HDBBW
ITEM # (WIRED)	MIL-HDBA	MIL-HDBB	MIL-HDBG	MIL-HDBR	MIL-HDBW
LED COLOR	Amber	Blue	Green	Red	White

Technical Information

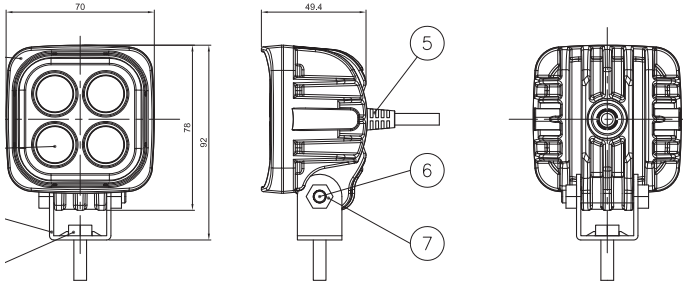
WARRANTY	Extended
RAW LUMENS	2,520 lm
WATTAGE	36
WEIGHT	- lb/ - kg
LED LIFESPAN	50,000 Hours
DIMENSIONS	160 mm x 160 mm x 59.94 mm
INPUT VOLTAGE	12-24V DC
AMP DRAW (12V)	- A
IP RATING	IP-67
VIBRATION RATING	15.6 G _{rms}
OPERATING TEMP	-40 Celsius ~ +85 Celsius

Features

- Weatherproof Deutsch Connector Standard
- Weatherproof & Dust Resistance
- Shatterproof Polycarbonate Construction
- Utilizes 180 LEDs to Achieve a 360° Pattern
- Push Button Activated
- Hi-Impact Housing
- Patent Pending



MINI DURA
High Performance LED Work Light



ITEM # 60° BEAM | DURA-M460

Technical Information

WARRANTY	Extended
RAW LUMENS	950 lm
WATTAGE	12
WEIGHT	0.45 kg
LED LIFESPAN	50,000 Hours
DIMENSIONS	70 mm x 92mm x 49.4 mm
INPUT VOLTAGE	9-32V DC
AMP DRAW (12V)	- A
IP RATING	IP-69K
VIBRATION RATING	10 G _{rms}
OPERATING TEMP	-40 Celsius ~ +85 Celsius

Features

- Reduced Power Draw Reduces Wear on Associated Parts
- Reduced Power Draw Can Lead to Fuel Savings
- Weatherproof & Dust Resistance
- Weatherproof Deutsch Connector
- Die-Cast Aluminum Housing



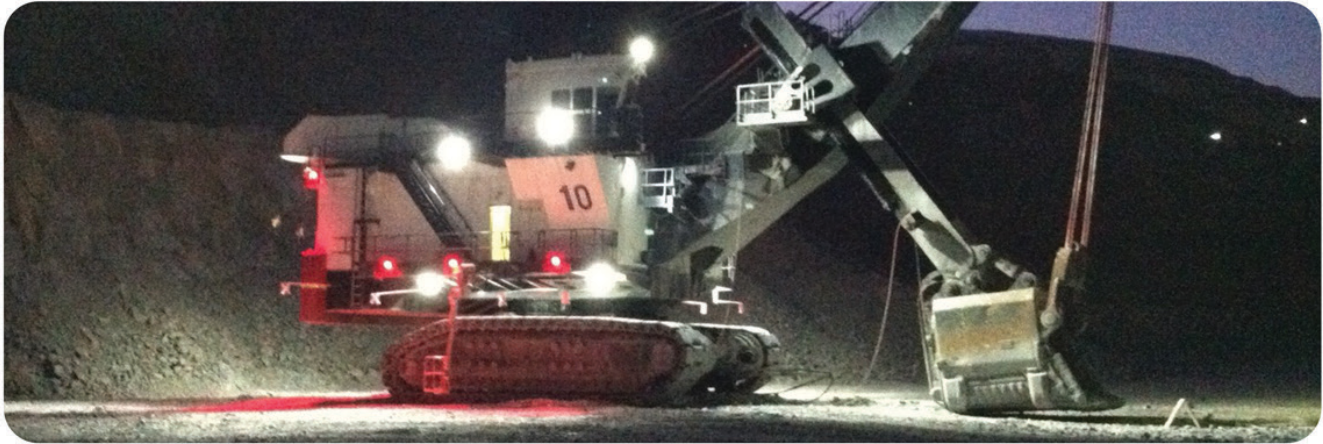
RED KILL ZONE
If You're In The Red, You're Dead



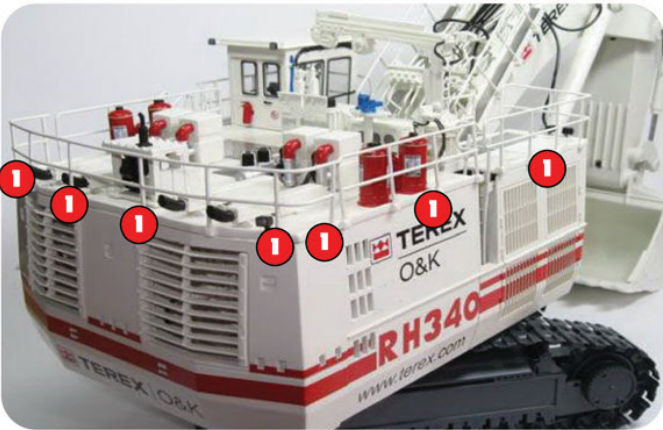
1
XIL-UM44E3065R
Elliptical Kill Zone Light

The Vision X Kill Zone system uses an elliptical pattern and a RED LED to paint a potential “Kill Zone” path around the counter weight of any shovel or can also indicate the swing path of any piece of equipment. This modular system can be scaled to any size or any application.

Operators of Rope Shovels, Drag Lines and Hydraulic Shovels have their indication systems when vehicles are too close, but sometimes it is too late. The Kill Zone system ensures anyone working around a piece of equipment has a distinct line they know not to cross. “If You’re In The Red You’re Dead.”



Example of Typical Fit Out



Items Required:

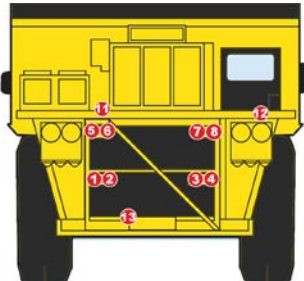
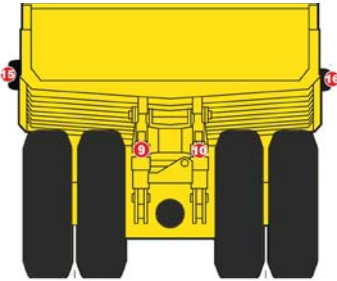
- 3 Inverters are required to run all 15 lights
- 1 inverter to be mounted center/top of rear counter weight
- 2 inverters to be mounted top of hydraulic staircases on each side of shovel
- Inverters will require a 120vAC input and will output 24vDC to run Kill Zone Lights.
- 2 side inverters will run 4 lights each
- 1 rear inverter will run 7 lights.
- Welding of tabs or Channel strut installation may be required at each light location
- Light locations are illustrated in the slides below
- 2 lights each side mounted on hydraulic staircases
- 2 lights each side mounted on walkway forward of hydraulic staircases
- 7 lights evenly spaced across the top of rear counter weight
- Aiming angles in the matrix below are purely suggestions to create similar results as renderings.
- Protocols should be measured and set for each site based on their own safety standards.

FACTORY BRACKET KOMATSU 830 & 930
Factory Light Upgrade Kit



MXL-EPX760KOM Shown

XIL-UMX4460KOM Shown



Fitout KOMATSU Available

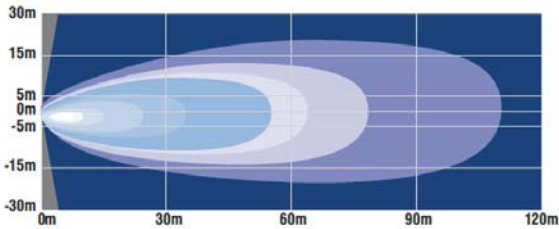
ITEM #	XIL-UMX4460KOM	MXL-EPX760KOM
APPLICATION	Komatsu 830 & 930	Komatsu 830 & 930
INCLUDES	Brackets, Lights, Factory Integration Harness	Brackets, Lights, Factory Integration Harness
LIGHTS INCLUDED	XIL-UMX4460	HHL100440
WATTAGE	35	40
RAW LUMENS	3,696 lm	3,680 lm
AMP DRAW (24V)	1.9A	1.67A

Technical Information

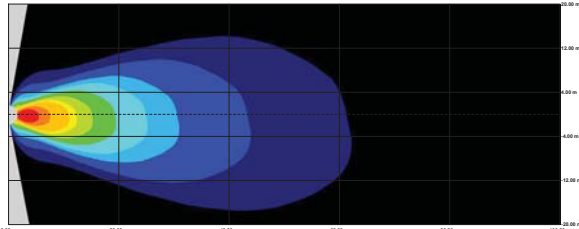
WARRANTY	Lights: Extended Hardware: Standard
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Features

- Triple the Light Output of Factory Lights
- Easy No Drill Plug and Play Installation
- Bolts Directly to Factory Mounting
- Weatherproof Deutsch Connector
- Polycarbonate Lens On Lights



MXL-EPX760KOM Shown



XIL-UMX4460KOM Shown



MXL MINING
RANGE DEFINITION



Mining Xreme Lighting (MXL) Range
The MXL Mining Range is the premier line of LED products for use on mine sites. The MXL Range enhances lighting performance, increases durability and simplifies maintenance with new features for the most dependable lighting for mining applications.

Forward Rake Trunnion
Allows light to mount in factory hole location while still protruding over metal bumper lip on many mining vehicles giving a larger field of view.

Rubber Isolated Bracket
No metal on metal contact lessens vibration symptoms on brackets, optics and electronics on circuit board and bolts.

304 Stainless
Increased protection against corrosion due to chemicals, acids and chlorides. 304 stainless steel contains twice the carbon over 316 stainless steel for increased strength in high vibration scenarios.

True Glow Optic Holder
Phosphorescent paint charges and glows off its own power, or off of other oncoming light sources when power is removed. Vehicles parked in staging areas or deep in a drift now have multiple safety indicators to approaching vehicles everywhere a True Glow light is mounted.

Side Bolt
Standard M8 bolt for socket adjustment.

5000K LED
Best all around color temp for both dusty and clear environments. Note, customers can special order in 4300K for extremely dusty environments.

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 LED's.

18-65v Input
Built to handle a wide voltage range as well as voltage spikes while only operating above 18 volts to prevent theft for automotive use.

Feather Start
Feather start technology allows a gradual introduction of amperage onto the circuit over a 5 second period reducing the wear on associated components: starter, alternator and battery systems as well as other sensitive circuitry being used.

Reverse Polarity Protection
Eliminates light failures due to improperly pinned or reverse polarity harnesses.

Reverse Polarity Operation
Allows light to operate regardless of the polarity input of the pins or harnesses. Eliminates troubleshooting and damage due to improper pinned or polarity harnesses.

Radius Bend Bracket
Eliminates failures due to fatigue applied on tight bends and acts as a cushion point to vibration.

Spray Clean Coating

Poltetrafluoroethylene (PTFE) non-stick coating
allows dirt and grime to be washed away without scrubbing and also has a higher thermal conductivity than standard coating to dissipate more heat from the housing.

All Tight Bolt System
A combination of Nylocks, Nybolts and thread locker on every fastening entity on every light.

Laser Etched Beam
Added at every serial code location to denote the beam pattern on each light.

IP 69K
German standard DIN 40050-9 extends rating for high-pressure, high-temperature wash-down and steam cleaning.

CISPR 25
ANSI and IEC standard for vehicles, boats and internal combustion engines, defines limits of electromagnetic interference (EMI) and radio frequency interference (RFI). No EMI/RFI interference.





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