

nightscan LITE



# MOBILE LIGHTING SOLUTIONS

1918 **WB** 2018  
100 YEARS  
WILL-BURT  
[WWW.WILLBURT.COM](http://WWW.WILLBURT.COM)

# Will-Burt Night Scan®

THE #1 SELLING LIGHT TOWER IN THE WORLD!

## The Advantages of Night Scan® by Will-Burt

WILL-BURT ADVANTAGES	VALUE TO CUSTOMER
<b>Higher Height</b> <ul style="list-style-type: none"> <li>• Up to 56% higher</li> <li>• Roof-mounted up to 25 ft. / 7.5 m</li> <li>• Vertical mount up to 30 ft. / 9 m</li> </ul>	<b>More Light Coverage</b> <ul style="list-style-type: none"> <li>• Greater scene illumination</li> <li>• No light glare for oncoming traffic</li> <li>• Light clears tall trees and 2 story houses</li> </ul>
<b>Light at Any Height</b> <ul style="list-style-type: none"> <li>• Does not need to be fully extended to illuminate</li> <li>• One button "auto-extend"</li> </ul>	<b>Fast and Flexible</b> <ul style="list-style-type: none"> <li>• Adapts to every situation</li> <li>• Fast operation increases safety and efficiency</li> </ul>
<b>Light in Any Direction</b> <ul style="list-style-type: none"> <li>• <b>Dual Tilt Feature</b></li> <li>• Straight up or down or anywhere in between</li> <li>• Equal light front and back</li> </ul>	<b>Light Where You Need and How You Need It</b> <ul style="list-style-type: none"> <li>• Rooftops, treetops and power lines</li> <li>• Illuminate forward and backward equally - 360°</li> <li>• Illuminate ravines and steep inclines</li> </ul>
<b>Lighter Weight</b> <ul style="list-style-type: none"> <li>• Over 42% lighter</li> </ul>	<b>Cost Savings</b> <ul style="list-style-type: none"> <li>• Fuel and installation (no roof reinforcement)</li> <li>• More funds to purchase other equipment</li> </ul>
<b>More Power Options</b> <ul style="list-style-type: none"> <li>• All electric with built-in air elevation</li> <li>• Onboard truck air system</li> <li>• AC or DC powered models</li> <li>• Internal power wires</li> </ul>	<b>Flexible Installation</b> <ul style="list-style-type: none"> <li>• New build or aftermarket compatible</li> <li>• No generator required options</li> <li>• Protected from the elements and damage</li> </ul>
<b>More Installation Options</b> <ul style="list-style-type: none"> <li>• 8 platforms to choose from</li> <li>• Roof mount to cab or body</li> <li>• Vertical mount internal or external</li> </ul>	<b>Meets Your Unique Vehicle Specifications</b> <ul style="list-style-type: none"> <li>• Allows installation on more vehicle types</li> <li>• New and Aftermarket</li> </ul>
<b>More Light Options</b> <ul style="list-style-type: none"> <li>• The most popular brands</li> <li>• LED and Halogen types</li> <li>• Over 400 light and tower combinations</li> </ul>	<b>Meets Your Specific Requirements</b> <ul style="list-style-type: none"> <li>• Technically advanced to budget friendly</li> <li>• Lower power consumption</li> <li>• High lumen output</li> </ul>
<b>Pneumatic Tube Construction</b> <ul style="list-style-type: none"> <li>• Anodized aluminum mast tubes</li> </ul>	<b>Reliable in Extreme Environments</b> <ul style="list-style-type: none"> <li>• As tested and proven, from the cold and ice of Canada to the sand and dust of Afghanistan</li> </ul>

**nightscan®** *Because You Need Light Every Night*



# Why You Need a Night Scan Light Tower

Safety is the number one requirement when answering a call and nighttime operations create an even bigger challenge. Night Scan light towers create a safer work environment by lighting the scene from above, like natural daylight.

Overhead lighting reduces glare for oncoming traffic and does not blind the crew. Night Scan light towers allow you to customize light intensity and coverage by stopping the tower at any height before it is fully extended. Installation flexibility is delivered with three lightweight options; roof-mounted to the apparatus, internally installed extending through the roof or mounted externally to the vehicle.

All Night Scan light towers meet or exceed all NFPA 1901-16 requirements. The Made in the USA, maintenance-free design operates in nearly any environment – from dusty, hot deserts to sub-freezing, snowy conditions. The Powerlite dual-tilt light option allows you to illuminate 360° of the scene by equally distributing light front and back.

The nearly limitless options of Night Scan ensures that it will meet the needs of your department. Hilly terrain or tall buildings might require a light tower of 30 feet with six high-powered lamps. Small vehicles might be better suited with a 3.25 foot Night Scan Chief model with two lamps. The towers can accommodate any vehicle's electrical system with either LED or Halogen lamps from the best brands – FRC, Whelen, ROM and Will-Burt.

The always upright design of Night Scan provides the best platform for adding optional strobe lamps or video cameras. Video cameras can be used for scene recording, training or remote monitoring of operations. Will-Burt has a full range of video options from simple, fixed lens cameras to high-definition and thermal imaging PTZ cameras.

Choose Night Scan and operate under the safest nighttime conditions, because You Need Light Every Night!

## Selecting the Night Scan That is Best For You

1. Review your total height requirements. If your terrain is hilly or there are tall trees or buildings, you might want a taller tower, up to 30 feet. Remember that the mounting location will add height as well. Night Scan platforms are available from 3.25' to 30'.
  2. How much space is available for the light tower? If ample roof space is available; a lightweight, compact, folding, roof-mounted tower is a good option. If space is tight, a through the roof vertical light tower or side mounted vertical tower might be the best option.
  3. How much light do you need? 2, 4 or 6 LED or halogen lamp options are available. Total lumens can reach 210,000.
  4. What type of electrical system is available? 12 and 24 DC options are available for vehicle electrical systems and 120 and 240 AC options are available for vehicles that have on-board generators.
  5. Select the tower remote control that is best for your needs. Wired controllers, panel-mount controllers and wireless controllers are available.
  6. Last, what options are needed? Warning strobes and video cameras are available on most Night Scan light towers.
- See page 10 for the tower and light options or visit <http://www.willburt.com/support/support-center/ez-spec/> for options and downloadable specifications.



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## NIGHT SCAN® LITE

The All New Night Scan Lite is a compact, folding light tower that merges cutting edge LED light technology with proven mechanical design to deliver fast and reliable scene illumination. The Night Scan Lite is self-contained and only needs 24 VDC power – no generator is needed. The lightweight design assures that the light tower can be installed on nearly any flat vehicle or trailer surface.



### ESSENTIAL FEATURES

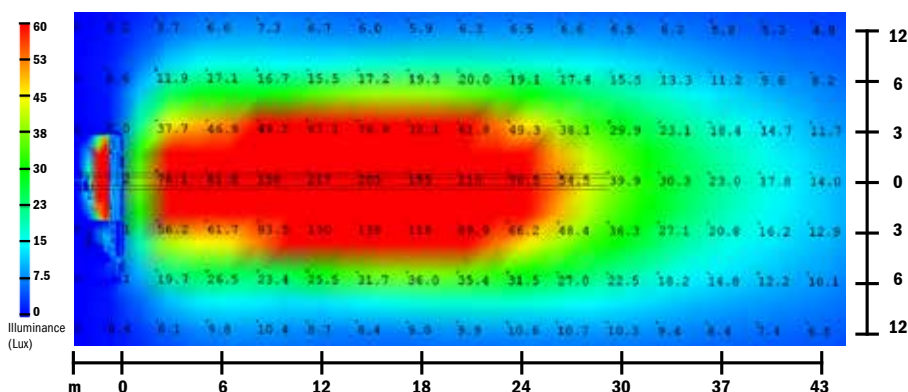
- Rugged, weatherproof design
- Remote light positioning
- Lights IP69k water-proof
- 2 year warranty
- Safety LED look-up light
- Wired hand-held controller
- No routine maintenance
- NFPA compliant
- Patent pending

### SPECIFICATIONS

- Extended Height – 2 meters
- Four Lights Raw Lumens – 80,000
- Two Lights Raw Lumens – 40,000
- Light Positioner Rotation – 360° / 19 seconds
- Light Positioner Tilt – 360° / 19 seconds
- Full Extension – under 15 seconds
- Operating Temperature – -20°C to +70°C
- Survival Wind Speed – 160 km/h
- Weight / Maximum Amps / Part Number –  
 4 Light System: 93 kg / 24VDC: 40 amps maximum / 719990290-PA09  
 2 Light System: 87 kg / 24VDC: 30 amps maximum / 719990281-PA09



### PHOTOMETRIC LIGHT CHART



**Over 384 sq. meters of safe work area at 30+ lux**



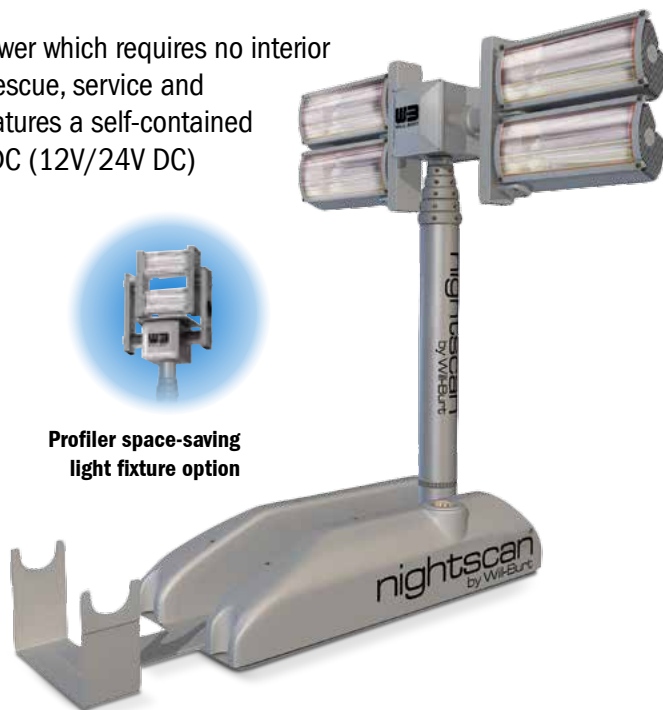
Handheld  
Remote  
Control and  
Junction  
Box Included

## NIGHT SCAN® CHIEF

The Will-Burt Night Scan® Chief is a roof-mounted, fold-down light tower which requires no interior vehicle space. It is typically used on medium-size rescue, pumper rescue, service and utility vehicles or smaller wrecker vehicles. The Night Scan® Chief features a self-contained air system (no external air supply needed) and is available with all DC (12V/24V DC) operations in which generator or inverter is not required.

Night Scan® Chief	1.0	1.8	2.3
Height (ft.) / (m)	3.25 / 1	6 / 1.8	7.5 / 2.3
System Weight Range (lb.) / (kg)	97 lb. / 44 kg - 135 lb. / 61 kg		
Auto Deploy and Auto Stow®	Yes	Yes	Yes
Time to Light	8 seconds	8 seconds	10 seconds
Number of Lights Available	2 or 4	2 or 4	2 or 4
Light Type Available	LED / Halogen	LED / Halogen	LED / Halogen
Maximum Lumens	80000	140000	140000
Full Pan and Tilt Light Positioning	Yes	Yes	Yes
Opposable Light Fixtures	No	No	No
VDC / Watts Maximum	12 or 24 / 500	12 or 24 / 640	12 or 24 / 920
VAC / Watts Maximum	120 or 240 / 6000	120 or 240 / 6000	120 or 240 / 6000
Profiler - Space-Saving Fixture Option	Yes - 2 or 3 lights	Yes - 2 or 3 lights	Yes - 2 or 3 lights
Strobe Light Option	Yes	Yes	Yes
Camera Option	Yes	Yes	Yes
*Wind Speed Survival	140+ mph / 225+ km/h	140+ mph / 225+ km/h	114 - 140 mph / 184 - 225 km/h
Operating Temperature	-22°F to +149°F / -30°C to +65°C		

\*Varies depending on light package - 125% NFPA Safety Factor



## NIGHT SCAN® POWERLITE

The Will-Burt Night Scan® Powerlite is a roof-mounted, fold-down light tower which requires no interior vehicle space. It is typically used on heavy-rescue vehicles, mobile command centers, airport ARFF vehicles or large wreckers. Opposable light fixtures provide equal lighting forward and backward at the same time – 360° of light. Delivering up to 210,000 lumens, the Night Scan® Powerlite is ideal on any vehicle where maximum light is required. The Powerlite 3.0 and 4.5 can be elevated with truck air or optional on-board compressor. The 2.3 comes with a built-in compressor.

Night Scan® Powerlite	2.3	3.0	4.5
Height (ft.) / (m)	7.5 / 2.3	10 / 3	15 / 4.5
System Weight Range (lb.) / (kg)	139 lb. / 63 kg – 178 lb. / 81 kg		
Auto Deploy & Auto Stow®	Yes	Yes	Yes
Time to Light	8 seconds	12 seconds	14 seconds
Number of Lights Available	4 - Night Scan XL 200 only	4 or 6	4 or 6
Light Type Available	LED	LED / Halogen	LED / Halogen
Maximum Lumens	80000	210000	210000
Full Pan & Tilt Light Positioning	Yes	Yes	Yes
Opposable Light Fixtures	Yes	Yes	Yes
VDC / Watts Maximum	12 or 24 / 500	12 or 24 / 1380	12 or 24 / 1380
VAC / Watts Maximum	N/A	120 or 240 / 9000	120 or 240 / 9000
Profiler – Space-Saving Fixture Option	No	Yes – 2 or 3 lights	Yes – 2 or 3 lights
D-TEC® Power Line Detection System Option	No	Yes	Yes
Strobe Light Option	Yes	Yes	Yes
Camera Option	Yes	Yes	Yes
*Wind Speed Survival	114 - 140 mph / 184 - 225 km/h	86 - 140 mph / 138 - 225 km/h	69 - 118 mph / 111 - 190 km/h
Operating Temperature	-22°F to +149°F / -30°C to +65°C		

\*Varies depending on light package – 125% NFPA Safety Factor

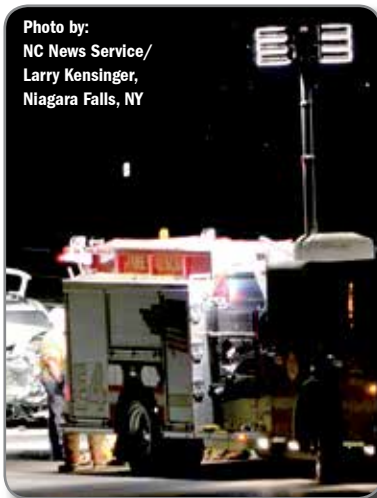
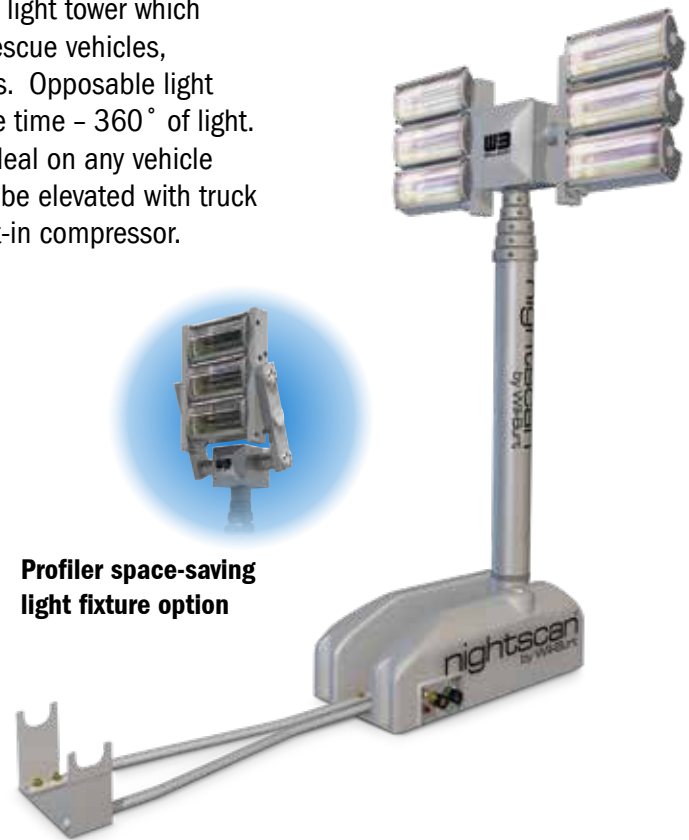


Photo by:  
NC News Service/  
Larry Kensinger,  
Niagara Falls, NY





## NIGHT SCAN® XTREME

The Will-Burt Night Scan® Xtreme is a roof-mounted, fold-down light tower which requires no interior vehicle space. It has been designed for applications where maximum height is required, such as hilly terrain, locales with mature trees or urban areas with tall buildings. Opposable light fixtures provide equal lighting forward and backward at the same time – 360° of light. The Night Scan® Xtreme can be elevated with truck air or optional on-board compressor. When the situation requires maximum elevation, Night Scan® Xtreme is the light tower you need.

Night Scan® Xtreme	6.0	7.5
Height (ft.) / (m)	20 / 6	25 / 7.5
System Weight Range (lb.) / (kg)	161 lb. / 73 kg – 199 lb. / 91 kg	
Auto Deploy & Auto Stow®	Yes	Yes
Time to Light	17 seconds	21 seconds
Number of Lights Available	2, 4 or 6	2 or 4
Light Type Available	LED / Halogen	LED / Halogen
Maximum Lumens	210000	140000
Full Pan & Tilt Light Positioning	Yes	Yes
Opposable Light Fixtures	Yes	Yes
VDC / Watts Maximum	24 / 920	24 / 460
VAC / Watts Maximum	120 or 240 / 9000	120 or 240 / 6000
Profiler – Space-Saving Fixture Option	No	No
D-TEC® Power Line Detection System Option	Yes	Yes
Strobe Light Option	Yes	Yes
Camera Option	Yes	Yes
*Wind Speed Survival	64 - 94 mph / 103 - 151 km/h	62 - 78 mph / 100 - 126 km/h
Operating Temperature	-22°F to +149°F / -30°C to +65°C	

\*Varies depending on light package – 125% NFPA Safety Factor





## NIGHT SCAN® VERTICAL COMPLETE

The Will-Burt Night Scan® Vertical Complete is a vertically mounted light tower which was created to be installed externally to the side or rear of a vehicle. This light tower includes an on-board compressor for elevation and requires no truck air. Used for elevating lights and/or cameras, it is perfect for smaller vehicles where space is limited. Measuring less than 6 inches (16 cm) deep, it can even fit between the cab and box. The compressor box can be placed below or beside the mast to suit your specific vehicle requirements.

Night Scan® Vertical Complete	2.3
Height (ft.) / (m)	7.5 / 2.3
Auto Deploy & Auto Stow®	Yes
Number of Lights Available	2 or 4
Light Type Available	LED / Halogen
Maximum Lumens	140000
Full Pan & Tilt Light Positioning	Yes
Opposable Light Fixtures	No
VDC / Watts Maximum	12 or 24 / 920
VAC / Watts Maximum	120 or 240 / 6000
Profiler – Space-Saving Fixture Option	No
D-TEC® Power Line Detection System Option	No
Strobe Light Option	Yes
Camera Option	Yes
Operating Temperature	-22°F to +149°F / -30°C to +65°C



## NIGHT SCAN® VERTICAL LIGHT TOWER






The Will-Burt Night Scan® Vertical Tower is a vertically mounted light tower which may be installed internally or externally to the side or rear of a vehicle. Used for elevating lights and/or cameras, it is typically used on heavy rescue vehicles, full-size mobile command centers, airport ARFF vehicles and large wreckers. Delivering up to 210,000 lumens, the Night Scan® Vertical Light Tower is ideal on any vehicle where maximum light and height are required.



Night Scan® Vertical	5.4-17	6-20	7-25	8-30
Height (ft.) / (m)	17 / 5	20 / 6	25 / 7.6	30 / 9
Auto Deploy & Auto Stow®	Yes	Yes	Yes	Yes
Number of Lights Available	4 or 6	4 or 6	4 or 6	4 or 6
Light Type Available	LED / Halogen	LED / Halogen	LED / Halogen	LED / Halogen
Maximum Lumens	210000	210000	210000	210000
Full Pan & Tilt Light Positioning	Yes	Yes	Yes	Yes
Opposable Light Fixtures	Yes	Yes	Yes	Yes
VDC / Watts Maximum	12 or 24 / 1380	12 or 24 / 1380	12 or 24 / 1380	12 or 24 / 1380
VAC / Watts Maximum	120 or 240 / 9000	120 or 240 / 9000	120 or 240 / 9000	120 or 240 / 9000
Profiler – Space-Saving Fixture Option	Yes	Yes	Yes	Yes
D-TEC® Power Line Detection System Option	Yes	Yes	Yes	Yes
Strobe Light Option	Yes	Yes	Yes	Yes
Camera Option	Yes	Yes	Yes	Yes
Operating Temperature	-22°F to +149°F / -30°C to +65°C			

## LIGHTING GUIDE

Will-Burt offers a variety of light options from the top brands in lighting to meet our customers' specific needs. Virtually every electrical system requirement can be met with our lighting solutions. Lighting packages are available in 12 and 24 volt DC and 120 and 240 volt AC. The most sophisticated and long lasting LED lighting available in the market today is offered in low power consumption and high lumen output arrangements. Halogen packages are available for applications where traditional, lower initial cost lighting is needed.

Lighting Comparison	LED (Light Emitting Diode)	Halogen
Light Description	LED lamps are the most efficient light source available, producing more lumens per watt than any other type. LEDs also produce instant light that is closer to daylight than HID or Halogen, which can make a scene appear brighter. LEDs are the longest lasting source of light because they do not use a filament to produce light. LEDs are the most costly light to purchase because of the advanced technology required to produce them; however, lifetime cost is the lowest.	Halogen lamps provide high lumen output and instant light at a low price. However, Halogen bulbs do consume the most power per lumen and also have the shortest life expectancy, requiring bulb replacement throughout the life of the apparatus.
Lumen Range / Lamp	8,000 - 28,000	10,500 - 35,000
Average Expected Life	50,000 hours	250 hours
Initial Cost	██████████	████
Lifetime Cost	████	██████████
Cost / Lumen	██████████	████
Power Consumption / Lumen	████	██████████
Brands	   	

# Sirion®

## The Most Powerful Night Scan...*EVER!*



Sirion LED lamps deliver maximum illumination on Night Scan light towers. These scene lights were designed to optimize the inherent benefits that Night Scan light towers have over the competition. A mix of short and long-range optics insure that the proper level of illumination is provided whether the tower is fully extended to cover the maximum area for a large and diverse scene or lowered to provide intense light on a focused situation.

### ESSENTIAL FEATURES

- Consistent and constant illumination from the beginning of the mission until the end is assured by an electronic thermal management system and top bin LEDs
- Water-proof and designed for high-vibration applications
- Compact and highly efficient
- 10 year warranty

**The three major areas of a nighttime scene are illuminated by Sirion Triple Coverage optics technology:**

- The critical work area is illuminated by focused spot light optics
- The apparatus is covered by short-range flood lamps
- The entire scene is evenly illuminated by long-range flood lights

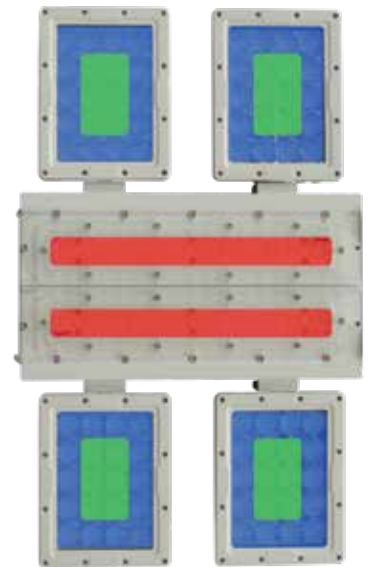
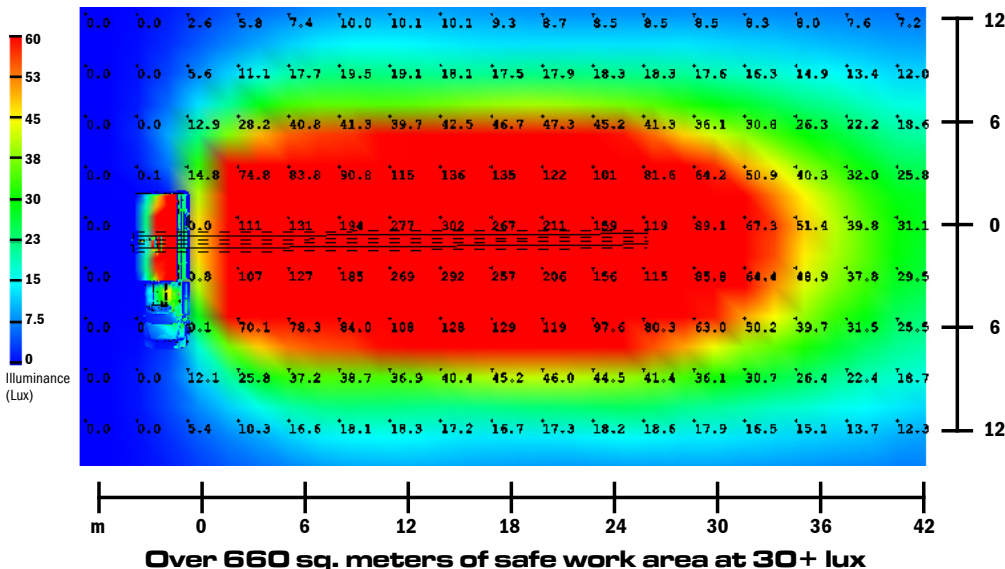
### Sirion available on the following light towers:

Night Scan Powerlite: 3.0 and 4.5

Night Scan Vertical Powerlite: 17', 20', 25' and 30'

120 / 240 AC - Total power 1,200 watts

120 VAC / 11 amps, 240 VAC / 5.5 amps



Effective lumens are a true measure of real world light output of a fixture.

Raw lumens don't tell the entire story. Bigger numbers don't always mean more light.

### Sirion Light Package

Raw Lumens: 220,000

Effective Lumens: 122,340



30 LUX of light is considered safe for a work area by NFPA



# nightscan<sup>®</sup>

by Will-Burt

## Tower and Light Package Options

 Chief				 Chief Profiler										
Brand	Model	Light Warranty	Type	Lumens / Lamp*	Watts	Voltage	Amps	1.0	1.8	2.3	Tower Height			
											3.25 ft.	6 ft.	7.5 ft.	
											6 ft.	7.5 ft.		
Akron		6	LED	20000	220	120 / 240	1.8 / 0.9		2	2				
			LED	11000	90	12 / 24	7.5 / 3.75	2	2 / 4	2 / 4	2 / 3	2 / 3		
			LED	20000	160	12	13		2 / 4	2 / 4				
FRC		5	LED	20000	160	120 / 240	2.8 / 1.4		2	2				
			LED	20000	160	24	6.5		2	2 / 4				
			LED	20000	230	120 / 240	2 / 1		2	2 / 4				
FRC		5	LED	28000	230	12	19.2		2	2				
			LED	28000	230	24	9.6		2	2 / 4				
			LED	28000	336	120 / 240	2.8 / 1.4		2	2 / 4				
FRC		5	LED	28000	230	12	20.8		2	2				
			LED	28000	230	24	10.4		2	2 / 4				
			LED	28000	336	120 / 240	2.8 / 1.4		2	2 / 4				
FRC		0	Halogen	10500	500	120	4.2		2 / 4	2 / 4	2 / 3	2 / 3		
			Halogen	19600	750	120 / 240	6.3 / 3.1	2	2 / 4	2 / 4	2 / 3	2 / 3		
			Halogen	22000	1000	120 / 240	8.3 / 4.2		2 / 4	2 / 4				
FRC		0	Halogen	16100	750	120 / 240	6.25 / 3.5	2	2 / 4	2 / 4	2 / 3	2 / 3		
			Halogen	22000	1000	240	4.2		2 / 4	2 / 4				
			LED	8100	80	12	6.1	2	2 / 4	2 / 4	2 / 3	2 / 3		
WHILEN		5	LED	17750	150	12/24	13 / 6.5		2 / 4	2 / 4	2 / 3	2 / 3		
			LED	15000	150	120	1.25		2 / 4	2 / 4	2 / 3	2 / 3		
			LED	17750	150	12/24	13 / 6.5		2 / 4	2 / 4	2 / 3	2 / 3		
WHILEN		5	LED	20000	225	12	16.5		2	2				
			LED	20000	210	24	8.25		2	2 / 4				
			LED	17000	180	120	1.5		2	2 / 4				
Will-Burt		5	LED	9000	90	12 / 24	8.5 / 4.25	2	2	2 / 4				
				10	LED	20000	125	12	9.2	2 / 4	2 / 4	2 / 4	2 / 3	2 / 3
					LED	20000	125	24	4.6	2 / 4	2 / 4	2 / 4	2 / 3	2 / 3
Will-Burt		10	LED	110000	600	120 / 240	5.5 / 2.75							
			LED	110000	600	12	50							

\*Lumens per light manufacturer specifications - Multiply lumens by number of lamps for total lumens.

[illegible]

## NIGHT SCAN XL200 LED LAMPS CREATED FOR NIGHT SCAN TOWERS

The Night Scan XL200 LED lamp delivers maximum lighting performance on Night Scan light towers. The XL200 is the only LED scene light designed specifically for Night Scan light towers from the inside out.

Heat degrades performance of an LED light and the XL200 manages heat through circuitry that controls power based on heat and massive heat sinks that dissipate heat. This means that the light will always produce the most light possible.

The XL200 is also IP69k rated which means that no water will penetrate the housing, even high-pressure spray.

All of this guarantees maximum light output for years. We back the XL200 with a 10 year warranty.

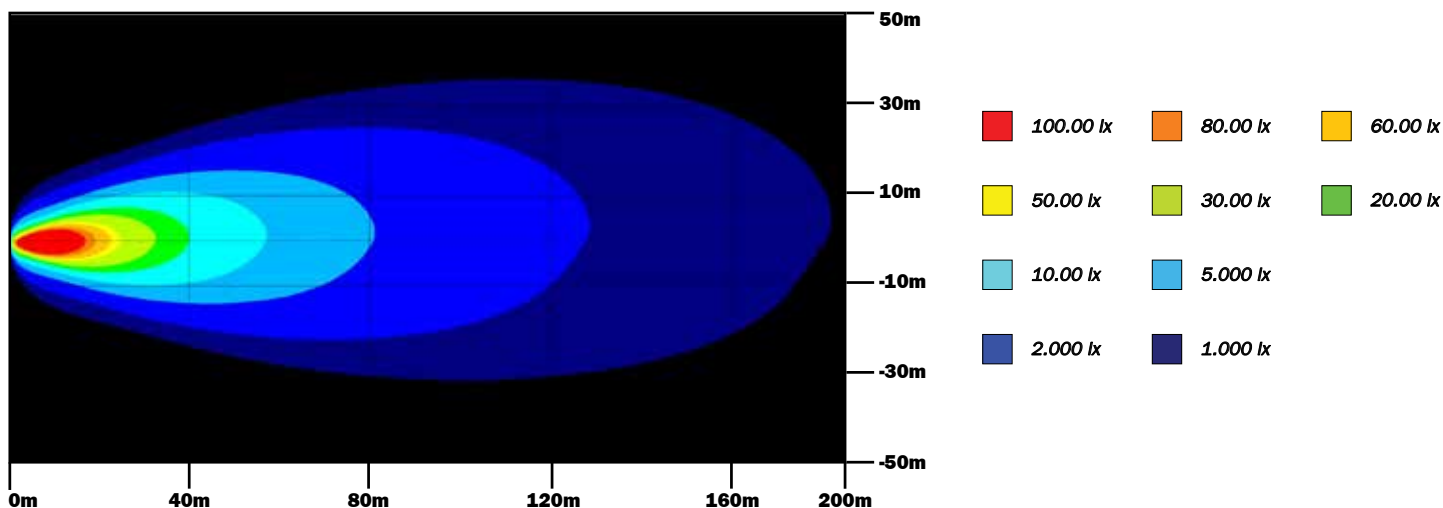
### ESSENTIAL FEATURES

- **20,000 raw lumens light the entire scene**
  - 11,586 effective lumens / lamp
- **Optics selected to provide the best illumination from a tower**
  - Light the scene, not the truck
- **Circuitry designed to optimize light output and minimize heat build-up**
  - Highest light output possible during the entire operation
  - Increases life of LEDs
- **IP69k rated**
  - Can withstand high-pressure spray from cleaning
- **Low power draw – 125 watts / lamp**
  - More power for other equipment
- **Available for all size Night Scan towers**
- **10 year warranty**
- **Great price / lumen value**



**XL200 Heat Management**

### NIGHT SCAN XL200 LED LIGHT PHOTOMETRIC CHART





## VALUE-ADDED ACCESSORIES

### STROBE LIGHTS

Will-Burt lighting solutions include reliable, compact strobe lights for added visibility and safety. Strobes feature a rugged, impact-resistant polycarbonate dome and base, exceptional fiber optics, and a double-flash power supply that automatically adjusts to function at any voltage – from 12V to 24V DC. They meet SAE J1318 Class 3 specifications and are available in LED beacons and a variety of colors: amber, blue, clear, red and green.



### REMOTE CONTROLLERS

Will-Burt offers wired and wireless full-function, simple-to-use remote controls. Designed for rugged environments and gloved hands, they can withstand the harshest weather and operating conditions.

All controllers have an emergency stop button for immediate reaction to unexpected situations. All controllers have a one button auto-deploy and auto-stow function to simplify tower operation and they also include a digital display for status feedback.

Choose from our handheld tethered models or a panel-mount version. A full-function, wireless / rechargeable remote-control system with 300' range is available for all Night Scan models. The wireless remote can also be paired with an optional tethered remote control for the ultimate in flexibility and peace of mind operation.



#### WIRED REMOTES



Chief and Vertical Complete



Powerlite, Xtreme and Vertical

#### WIRELESS REMOTE



All Night Scan Models

#### PANEL MOUNT CONTROLS



Chief and Vertical Complete



Powerlite, Xtreme and Vertical

### D-TEC® LIVE POWER LINE DETECTION SYSTEM

The D-TEC® safety system provides overhead power line detection and above-the-mast illumination. The built-in high voltage, electromagnetic and electrostatic field detection system automatically stops mast extension, providing added protection for the operator and equipment. The D-TEC® safety system is available on powerlite and vertical telescoping masts.

#### D-TEC® SAFETY FEATURES:

- Dual threshold AC alert, E-Field (current) and H-Field (magnetic)
  - AC voltage detection range starting at 110VAC/60Hz
- Senses both AC current and AC voltage
- 3-axis field detection
- LED Look-Up Light
- Audible alerts
- Alphanumeric LED display
- Built-in Emergency Bypass
- Expanded self-testing features
- Factory pre-set siren and verbal warning in English and Spanish



## NIGHT SCAN® SCOUT

Night Scan Scout floods your rescue scene with powerful LED light that lets you get the job done quickly and safely. Scout delivers the flexibility to be mounted almost anywhere on your mobile platform; roof, roll-bar, crane, boom, nearly any solid surface. Scout is a 12 volt system powered directly from your vehicle, no need for an expensive generator. Two long range wireless remote controls are provided with every light system. Night Scan Scout is an essential tool for nighttime operations.

### ESSENTIAL FEATURES

- Direct 40,000 lumens of light exactly where you need it
  - Control both rotation and tilt angle of lights
- 2 wireless long-range remote controls
- Install anywhere
- Fits any size vehicle
- Water-proof / Weather-proof
- 12 volt operation



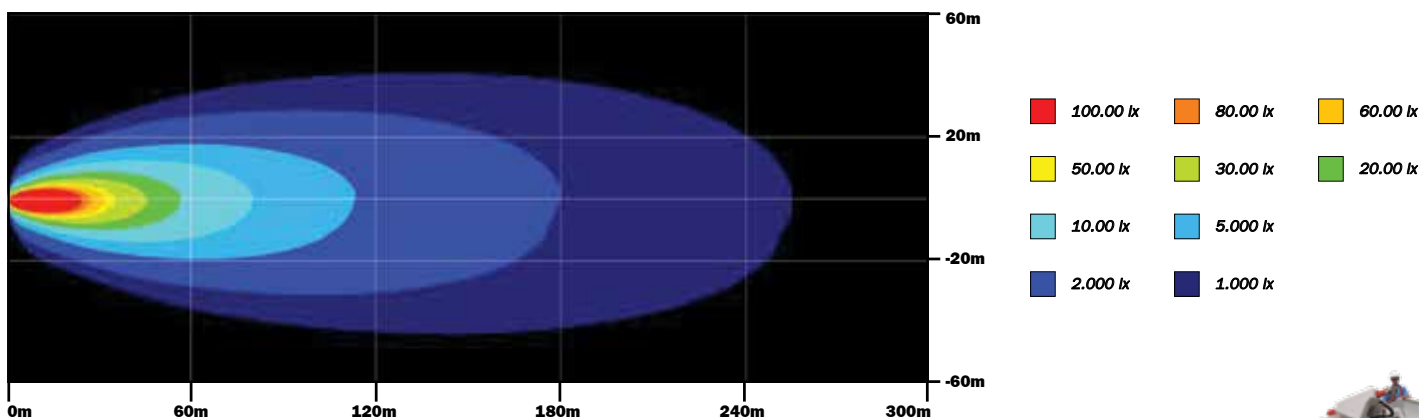
nightscan®  
scout



### SPECIFICATIONS

Total Lumens	40,000	
Height	10 in. / 254 mm	
Width	20 in. / 508 mm	
Depth	5.5 in. / 140 mm	
Weight	36.5 lb. / 16.5 kg	
Operating Temperature	-20 °C to 50 °C / -4 °F to 122 °F	
IR Rating - Waterproof	Lights: IP69K	Positioner: IP68
Pan Axis (rotation)	400° (±200°)	
Tilt Axis	180° (±90°)	
Maximum Continuous Power	263 watts	
Maximum Running Current	21.9 amps	
Input Voltage	12 VDC - 24 VDC and AC Options	

### NIGHT SCAN X200 LED LIGHT PHOTOMETRIC CHART



## MOBILE VIDEO SYSTEMS

Will-Burt Night Scan® Light Towers deliver the capability of camera mounting, with or without lights. A camera, elevated to a height from 3.25 ft. to 30 ft. above the vehicle roof, allows ground personnel to survey an emergency scene quickly and efficiently. In addition, the system offers real-time monitoring and surveillance for accurate records and documentation. Will-Burt has several camera, DVR, monitor and software packages that fit a variety of needs. Our video solutions experts can also design a customized package to fit your specific requirements. Below is a sample of our video solutions.



Feature		WONWOO - IR	Viper SD	Viper HD	Viper TI
Camera Type	Analog	PTZ - Analog Infrared	PTZ - Analog or IP Standard Definition	PTZ - Analog or IP High Definition	PTZ - Analog or IP Thermal Imaging
Lens	8mm / 2.8 mm	3.4mm - 122.4mm	3.4mm - 122.4mm	4.7mm - 94.0mm	19mm
Image Sensor	Sharp CCD	Exview HAD CCD	Interline Transfer CCD	2MP CMOS High Definition	8-14 micron spectral uncooled microbolometer
Resolution	510 x 492 / 420 TV lines	1028 x 508 / 700 TV Lines	768 x 582 / 520 TV Lines	1920 x 1080	320 x 240 / 225 TV Lines
Optical Zoom / Digital Zoom	Fixed	36x / 32x	35x / 10x	20x / 10x	N/A
Low Light	0 LUX with 10 IR LED's	0.2 LUX with 46 IR LEDs / 80m	0.01 LUX in IR mode	Less than 3 LUX	
Pan & Tilt	No	360° endless pan / -22.5° - 90° tilt	360° endless pan and tilt	360° endless pan and tilt	360° endless pan and tilt
Ingress Protection	IP67 - Waterproof	IP66 - Outdoors	IP67 - Waterproof	IP67 - Waterproof	IP67 - Waterproof



**2 Camera System**



**Video + Thermal**

Feature	Silent Sentinel Oculus SD	Silent Sentinel Oculus HD	Silent Sentinel Oculus IR SD	Silent Sentinel Oculus IR HD
Camera Type	PTZ - Analog or IP		PTZ - Analog or IP w/Infrared Illuminator - 100 meters	
Lens	3.4mm to 122mm	4.3mm to 129.0mm	3.4mm to 122mm	4.3mm to 129.0mm
Image Sensor	1/4" Exview CCD	1/2.8" type Exmor CMOS sensor	1/4" Exview CCD	1/2.8" type Exmor CMOS sensor
Resolution	530 TV lines	Approx 3.27 million	530 TV lines	Approx 3.27 million
Optical Zoom / Digital Zoom	40x / 12x	30x / 12x	40x / 12x	30x / 12x
Low Light	1.4 lux color, 0.01 lux mono	1.7 lux, 0.5 lux in High Sens Mode	1.4 lux color, 0.01 lux mono	1.7 lux, 0.5 lux in High Sens Mode
Pan & Tilt	360° pan / +90° to -30° tilt		360° pan / +90° to -30° tilt	
Ingress Protection	IP67 - Waterproof		IP67 - Waterproof	

Video Camera Feature	Silent Sentinel - Oculus TI SD	Silent Sentinel - Oculus TI HD	Thermal Camera Feature	Specification
Camera Type	PTZ - Analog or IP Video + Thermal Imager		Sensor type	Uncooled VOx Microbolometer
			Pixel size	17µ
Lens	3.4mm to 122mm	4.3mm to 129.0mm	Spectral band	8-14µm
Image Sensor	1/4" Exview CCD	1/2.8" type Exmor CMOS sensor	Thermal sensitivity	<50mK
Resolution	530 TV lines	Approx 3.27 million	Array format	320 x 240 or 640 x 480
Optical Zoom / Digital Zoom	40x / 12x	30x / 12x	Frames rates	9Hz, 30Hz
Low Light	1.4 lux color, 0.01 lux mono	1.7 lux, 0.5 lux in High Sens Mode	Image control	White hot, Black hot, Invert
Pan & Tilt	360° pan / +90° to -30° tilt		Focus	Fixed, preset, Athermalised
Ingress Protection	IP67 - Waterproof		Zoom	E-zoom 1-4, Region of interest
			FOV	35mm (other FOV available)



## LED LIGHTING UPGRADE KITS

nightscan®

## Collar Light Assembly Connection

Brand	Model	Light Warranty	Volts	Number of Lights	Total Lumens	Total Watts	Chief 1.8	Chief 2.3	Powerlite 3.0	Powerlite 4.5	Vertical 15.4-17	Vertical 6-20	Vertical 7-25	Vertical 8-30	RCP Style
Whelen	Pioneer Plus Flood	5	12	2	16,000	150	x	x							Collar
Whelen	Pioneer Plus Flood/Flood	5	12	2	32,000	300	x	x							Collar
Whelen	Pioneer Plus Spot/Flood	5	12	2	32,000	300	x	x							Collar
F R C	SPECTRA	5	12	2	40,000	460	x	x							Collar
Whelen	Pioneer Plus Flood	5	12	4	32,000	300	x	x							Collar
Whelen	Pioneer Plus Flood/Flood	5	12	4	64,000	600	x	x							Collar
Whelen	Pioneer Plus Spot/Flood	5	12	4	64,000	600	x	x							Collar
Will-Burt	Night Scan XL90	5	12/24	2	18,000	180	x	x							Collar
F R C	Evolution II	5	12/24	2	22,000	180	x	x							Collar
Will-Burt	Night Scan XL200	10	12/24	2	40,000	250	x	x							Collar
F R C	Evolution II	5	12/24	2	40,000	320	x	x							Collar
Will-Burt	Night Scan XL90	10	12/24	4	36,000	360	x	x							Collar
F R C	Evolution II	5	12/24	4	44,000	360	x	x	x	x	x	x	x	x	Collar
Will-Burt	Night Scan XL200	10	12/24	4	80,000	500	x	x	x	x	x	x	x	x	Collar
F R C	Evolution II	5	12/24	4	80,000	640	x	x	x	x	x	x	x	x	Collar
Will-Burt	Night Scan XL200	10	12/24	6	120,000	750			x	x	x	x	x	x	Collar
Whelen	Pioneer Plus Flood	5	24	2	16,000	150	x	x							Collar
Whelen	Pioneer Plus Flood/Flood	5	24	2	32,000	300	x	x							Collar
Whelen	Pioneer Plus Spot/Flood	5	24	2	32,000	300	x	x							Collar
Whelen	Pioneer Plus Flood	5	24	4	32,000	300	x	x							Collar
Whelen	Pioneer Plus Flood/Flood	5	24	4	64,000	600	x	x	x	x	x	x	x	x	Collar
Whelen	Pioneer Plus Spot/Flood	5	24	4	64,000	600	x	x	x	x	x	x	x	x	Collar
F R C	Evolution II	5	24	4	80,000	640	x	x	x	x	x	x	x	x	Collar
F R C	SPECTRA	5	24	4	80,000	920		x	x	x					Collar
Will-Burt	Night Scan XL200	10	120/240	4	80,000	500			x	x	x	x	x	x	Flange Shaft
Will-Burt	Night Scan XL200	10	120/240	4	80,000	500			x	x	x	x	x	x	Appelton Shaft
Will-Burt	Magnafire 1000 AC	0	240	4	88,000	4,000			x	x	x	x	x	x	Flange Shaft
Will-Burt	Magnafire 1000 AC	0	240	4	88,000	4,000			x	x	x	x	x	x	Appelton Shaft
Whelen	Pioneer Plus Flood	5	120	2	16,000	150	x	x							Collar
Whelen	Pioneer Plus Flood/Flood	5	120	2	30,000	300	x	x							Collar
Whelen	Pioneer Plus Spot/Flood	5	120	2	30,000	300	x	x							Collar
F R C	SPECTRA	5	120	2	40,000	460	x	x							Collar
Whelen	Pioneer Plus Flood	5	120	4	32,000	300	x	x							Collar
Whelen	Pioneer Plus Flood/Flood	5	120	4	60,000	600	x	x	x	x	x	x	x	x	Collar
Whelen	Pioneer Plus Spot/Flood	5	120	4	60,000	600	x	x	x	x	x	x	x	x	Collar
F R C	SPECTRA	5	120	4	80,000	920		x	x	x	x	x	x	x	Collar
F R C	SPECTRA Max	5	120	4	112,000	1,344			x	x	x	x	x	x	Collar
F R C	SPECTRA Max-S	5	120	4	112,000	1,344			x	x	x	x	x	x	Collar
Whelen	Pioneer Plus Flood/Flood	5	120	6	90,000	900			x	x	x	x	x	x	Collar
Whelen	Pioneer Plus Spot/Flood	5	120	6	90,000	900			x	x	x	x	x	x	Collar
F R C	SPECTRA	5	240	2	40,000	460	x	x							Collar
F R C	SPECTRA	5	240	4	80,000	920		x	x	x	x	x	x	x	Collar
F R C	SPECTRA Max	5	240	4	112,000	1,344			x	x	x	x	x	x	Collar
F R C	SPECTRA Max-S	5	240	4	112,000	1,344			x	x	x	x	x	x	Collar

## Shaft Light Assembly Connection

Brand	Model	Light Warranty	Volts	Number of Lights	Total Lumens	Total Watts	Chief 1.8	Chief 2.3	Powerlite 3.0	Powerlite 4.5	Vertical 15.4-17	Vertical 6-20	Vertical 7-25	Vertical 8-30	RCP Style
Whelen	Pioneer Plus Flood	5	12	2	16,000	150	x	x							Shaft
Whelen	Pioneer Plus Flood/Flood	5	12	2	32,000	300	x	x							Shaft
F R C	Evolution II	5	12	4	80,000	640	x	x							Shaft
F R C	Evolution II	5	12/24	2	22,000	180	x	x							Shaft
Will-Burt	Night Scan XL200	10	12/24	2	30,000	250	x	x							Shaft
F R C	Evolution II	5	12/24	2	40,000	320	x	x							Shaft
F R C	Evolution II	5	12/24	4	44,000	360	x	x							Shaft
Will-Burt	Night Scan XL200	10	12/24	4	80,000	500	x	x	x	x	x	x	x	x	Shaft
Will-Burt	Night Scan XL200	10	12/24	6	120,000	750			x	x	x	x	x	x	Shaft
Whelen	Pioneer Plus Flood	5	24	2	16,000	150	x	x							Shaft
Whelen	Pioneer Plus Flood/Flood	5	24	2	32,000	300	x	x							Shaft
Whelen	Pioneer Plus Flood	5	24	4	32,000	300	x	x							Shaft
F R C	Evolution II	5	24	4	44,000	360			x	x	x	x	x	x	Shaft
Whelen	Pioneer Plus Flood/Flood	5	24	4	64,000	600	x	x	x	x	x	x	x	x	Shaft
F R C	Evolution II	5	24	4	80,000	640	x	x							Shaft
F R C	Evolution II	5	24	4	80,000	640			x	x	x	x	x	x	Shaft
Whelen	Pioneer Plus Flood/Flood	5	120	4	60,000	600	x	x	x	x	x	x	x	x	Shaft
Whelen	Pioneer Plus Spot/Flood	5	120	4	60,000	600	x	x	x	x	x	x	x	x	Shaft
F R C	SPECTRA Max	5	120	4	112,000	1,344			x	x	x	x	x	x	Shaft
F R C	SPECTRA Max-S	5	120	4	112,000	1,344			x	x	x	x	x	x	Shaft
Whelen	Pioneer Plus Flood/Flood	5	120	6	90,000	900			x	x	x	x	x	x	Shaft
Whelen	Pioneer Plus Spot/Flood	5	120	6	90,000	900			x	x	x	x	x	x	Shaft
F R C	SPECTRA	5	120	6	120,000	1,380			x	x	x	x	x	x	Shaft
F R C	SPECTRA Max	5	120	6	168,000	2,016			x	x	x	x	x	x	Shaft
F R C	SPECTRA Max-S	5	120	6	168,000	2,016			x	x	x	x	x	x	Shaft
F R C	SPECTRA	5	240	4	80,000	920		x	x	x					Shaft
F R C	SPECTRA Max	5	240	4	112,000	1,344			x	x	x	x	x	x	Shaft
F R C	SPECTRA Max-S	5	240	4	112,000	1,344			x	x	x	x	x	x	Shaft
F R C	SPECTRA	5	240	6	120,000	1,380			x	x	x	x	x	x	Shaft
F R C	SPECTRA Max	5	240	6	168,000	2,016			x	x	x	x	x	x	Shaft
F R C	SPECTRA Max-S	5	240	6	168,000	2,016			x	x	x	x	x	x	Shaft

**Will-Burt is the exclusive Fire Dealer and Fire Department distributor of Firetech LED lights.**



**Firetech is a complete line of apparatus LED lighting**

For additional detailed information visit [www.hivizleds.com](http://www.hivizleds.com). Contact your Will-Burt sales representative today.

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## UNITED STATES WORLD HEADQUARTERS

169 S. Main St.,  
Orrville, Ohio USA 44667  
Telephone: 330.682.7015  
Mast Customer Service: 330.684.4000  
Fax: 330.684.1190  
Email: [contact\\_us@willburt.com](mailto:contact_us@willburt.com)

## INTEGRATED TOWER SYSTEMS

2703 Dawson Road,  
Tulsa, OK 74110  
Telephone: 800.850.8535  
Fax: 918.749.8537  
Email: [programs@itstowers.com](mailto:programs@itstowers.com)

## EUROPE GEROH

A Will-Burt Company  
Fischergasse 25  
91344 Waischenfeld, Germany  
Telephone: +49-9202-18-0  
Fax: +49-9202-18-11  
Email: [info@geroh.com](mailto:info@geroh.com)

## UNITED KINGDOM MAD

Unit 5, Station Approach  
Four Marks, Alton Hampshire,  
GU34 5HN, United Kingdom  
Telephone: +44 (0) 1420 565618  
Fax: +44 (0) 1420 565628  
Email: [info@madcctv.com](mailto:info@madcctv.com)

## UK SALES OFFICE

Unit 5b, Station Approach  
Four Marks, Alton Hampshire,  
GU34 5HN, United Kingdom  
Telephone: +44 (0) 1403 265532  
Fax: +44 (0) 1403 259072

## ASIA SINGAPORE SALES OFFICE

1 Fullerton Road,  
#02-01 One Fullerton,  
Singapore 049213  
Telephone: +65 6832 5689  
Fax: +65 6722 0664