



MOBILE LIGHTING SOLUTIONS

WB[®]
WILL-BURT
WWW.WILLBURT.COM

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 -22°F, 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 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 220,000.
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 12 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® SPOT

The Night Scan Spot is a rotatable, remote-controlled LED light. The wireless remote allows the light to be remotely adjusted by the operator.

With a vertical tilt up of 70° and 45° tilt down and an infinite horizontal rotational range (clockwise and counterclockwise), The Night Scan Spot from Will-Burt allows for pan-tilt motion. Also equipped with a flashing alert feature, the remote-controlled LED light can be used to warn approaching motorists or pedestrians of potential hazards or help is needed. It can also be used with service vehicles to alert the on-coming vehicles there are people at work, and more.

SPECIFICATIONS

Lumens	6,720
Operating Voltage	10 - 30VDC
Power Consumption	80W
Maximum Distance for Operating Remote Control	Up to 130 ft.
Weight	7 lbs. (3.2KG)
Remote Control Battery	(1) 23A battery



nightscan spot®

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.

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	



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**

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. 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, 4 or 6
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



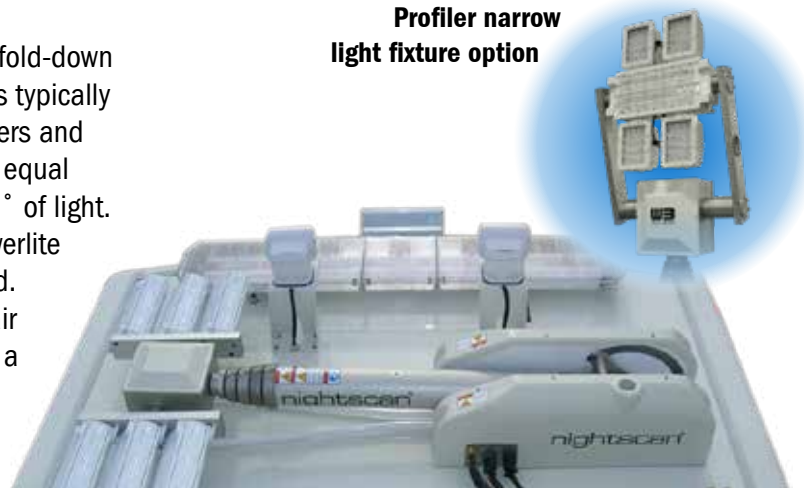
Profiler narrow light fixture option



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 and airport ARFF vehicles. Opposable light fixtures provide equal lighting forward and backward at the same time – 360° of light. Delivering up to 220,000 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.

**Profiler narrow
light fixture option**



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	4 or 6	4 or 6
Light Type Available	LED	LED / Halogen	LED / Halogen
Maximum Lumens	112000	220000	220000
Full Pan & Tilt Light Positioning	Yes	Yes	Yes
Opposable Light Fixtures	Yes	Yes	Yes
VDC / Watts Maximum	12 or 24 / 920	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



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® 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 Model	Xtreme 6.0	Xtreme 7.5	Vertical Complete 2.3
Height (ft.) / (m)	20 / 6	25 / 7.5	7.5 / 2.3
System Weight Range (lb.) / (kg)	161 lb. / 73 kg – 199 lb. / 91 kg		70 lbs. / 32 kg - 85 lbs. / 39 kg
Auto Deploy & Auto Stow®	Yes	Yes	Yes
Time to Light	17 seconds	21 seconds	10 seconds
Number of Lights Available	2, 4 or 6	2 or 4	2 or 4
Light Type Available	LED / Halogen	LED / Halogen	LED / Halogen
Maximum Lumens	210000	140000	140000
Full Pan & Tilt Light Positioning	Yes	Yes	Yes
Opposable Light Fixtures	Yes	Yes	No
VDC / Watts Maximum	24 / 920	24 / 460	12 or 24 / 920
VAC / Watts Maximum	120 or 240 / 9000	120 or 240 / 6000	120 or 240 / 6000
Profiler – Space-Saving Fixture Option	Yes	Yes	No
D-TEC® Power Line Detection System Option	Yes	Yes	No
Strobe Light Option	Yes	Yes	Yes
Camera Option	Yes	Yes	Yes
*Wind Speed Survival	64 - 94 mph / 103 - 151 km/h	62 - 78 mph / 100 - 126 km/h	114 - 140 mph / 184 - 225 km/h
Operating Temperature	-22°F to +149°F / -30°C to +65°C		-22°F to +149°F / -30°C to +65°C

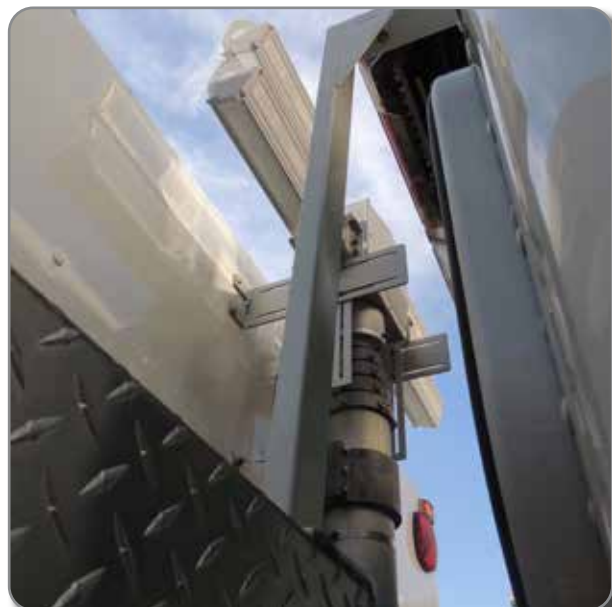
*Varies depending on light package – 125% NFPA Safety Factor



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 220,000 lumens with the Sirion light package, 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	220000	220000	220000	220000
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
Although LED lights are more expensive than halogen, LEDs do not require a costly generator. LEDs offer the lowest lifetime cost.	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.	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. Halogen lights typically require a generator.
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	  	

NIGHT SCAN® 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.

Now Available in
narrow Profiler design

sirion®



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
- Limited Lifetime 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'

Total power 1,200 watts

120 VAC / 11 amps, 240 VAC / 5.5 amps

12 VDC / 50 amps, 24 VDC / 25 amps

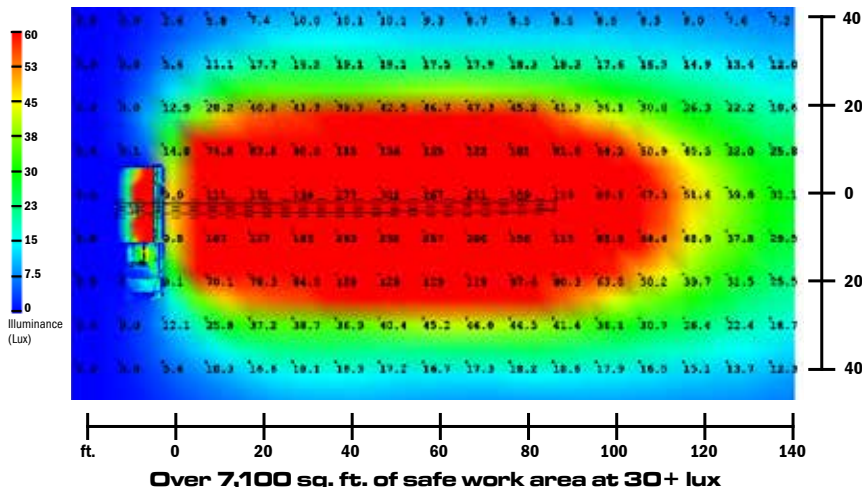
Effective lumens are a true measure of real world light output of a fixture.

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



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

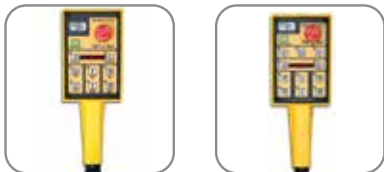
Will-Burt offers wired and wireless full-function, simple-to-use remote controls. Designed for rugged environments and gloved hands, they can withstand the harshest weather and operating conditions.

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



nightscan[®]

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	1.8	2.3
								Tower Height				
								3.25 ft.	6 ft.	7.5 ft.	6 ft.	7.5 ft.
FRC		5	LED	20000	160	12	13		2 / 4	2 / 4		
			LED	20000	160	24	6.5		2 / 4	2 / 4		
FRC		5	LED	20000	230	12	18.3		2	2		
			LED	20000	230	24	9.2		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		
			Halogen	35000	1500	240	6.25		2 / 4	2 / 4		
WHELEN		5	LED	18520	150	12.8 / 25.6	12 / 6		2 / 4	2 / 4	2 / 3	2 / 3
			LED	16790	150	115	1.2		2 / 4	2 / 4	2 / 3	2 / 3
WHELEN		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		
W3 WILL-BURT		5	LED	14000	50	12 / 24	4.2 / 2.1	2 / 4	2 / 4	2 / 4		
		5	LED	14000	50	120 / 240	.42 / .21	2 / 4	2 / 4	2 / 4		
W3 WILL-BURT		Limited Lifetime	LED	20000	125	12 / 24	9.2 / 4.6	2 / 4	2 / 4	6	2/3	2/3
		Limited Lifetime	LED	20000	125	12 / 24	9.2 / 4.6	2 / 4	2 / 4	2 / 4	2 / 3	2 / 3
		Limited Lifetime	LED	20000	125	120 / 240	1.1 / .55	2 / 4	2 / 4	2 / 4	2 / 3	2 / 3
		Limited Lifetime	LED	110000	600	12 / 24	50 / 25					
		Limited Lifetime	LED	110000	600	120 / 240	5.5 / 2.75					

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



Powerlite



Powerlite Profiler



Powerlite Xtreme

Vertical
Complete


Vertical

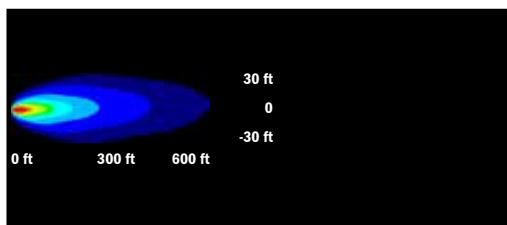
***Visit nightscan.com
to customize a
light tower using our
Night Scan EZ Spec
interactive table**

2.3	3.0	4.5	3.0	4.5	6.0	7.5	2.3	5.4-17	6-20	7-25	8-30
Tower Height											
7.5 ft.	10 ft.	15 ft.	10 ft.	15 ft.	20 ft.	25 ft.	7.5 ft.	17 ft.	20 ft.	25 ft.	30 ft.
							2				
	2 / 4	2 / 4					2 / 4				
	4 / 6	4 / 6	3	3			2	4 / 6	4 / 6	4 / 6	4 / 6
	4	4	3	3	2 / 4		2 / 4				
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							2 / 4				
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	4 / 6	4 / 6			2 / 4	2	2 / 4	4 / 6	4 / 6	4 / 6	4 / 6
							2 / 4				
							2 / 4				
4	4 / 6	4 / 6	3	3			2 / 4	4 / 6	4 / 6	4 / 6	4 / 6
4	4 / 6	4 / 6	3	3	4 / 6	2 / 4	2 / 4	4 / 6	4 / 6	4 / 6	4 / 6
	2	2	1	1				2	2	2	2
	2	2	1	1				2	2	2	2

NIGHT SCAN® LED LAMPS


The Night Scan family of LED lamps are the only LED scene lights designed specifically for Night Scan light towers. These lamps are engineered to optimize the inherent benefits of Night Scan towers, producing more light, using less power, and covering larger areas. Reliable in extreme environments, the Night Scan family of LED lamps are IP69K rated for high-pressure spray and are submersible under water. Consistent illumination from the beginning of the mission until the end is assured by an electronic thermal management system, large heat sinks, and top-bin LEDs.

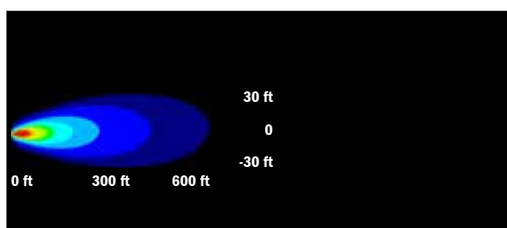
Model	X200	
Raw Lumens	20,000 each	
Effective Lumens	11,323 each	
Warranty	Limited Lifetime	
Optics	Double - Spot / Flood	



**Night Scan X200 -
6 Lights**




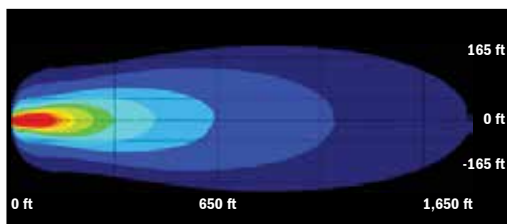
Model	XL200	
Raw Lumens	20,000 each	
Effective Lumens	11,362 each	
Warranty	Limited Lifetime	
Optics	Double - Spot / Flood	



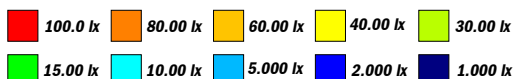
**Night Scan XL200 -
6 Lights**



Model	Sirion	
Raw Lumens	110,000 each	
Effective Lumens	61,170 each	
Warranty	Limited Lifetime	
Optics	Triple - Spot / Short & Long Flood	

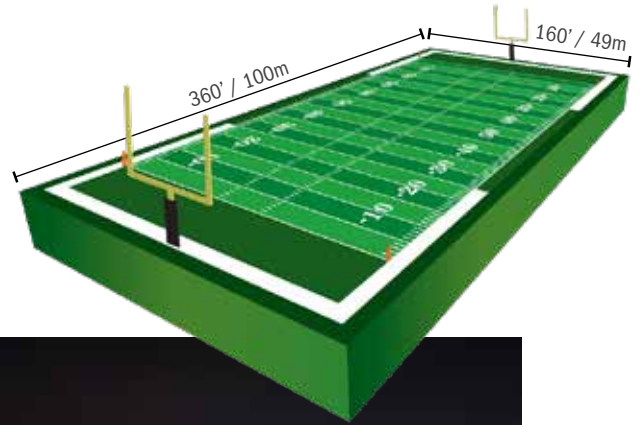


**Night Scan Sirion -
2 Lights**



MORE LIGHT COVERAGE

The Night Scan LED lamps deliver maximum lighting performance and will always create light through out the mission. The 220,000 lumen Sirion provides usable light for more than the area of a football field.



Night Scan X200 - 6 Lights



Night Scan XL200 - 6 Lights



Night Scan Sirion - 2 Lights

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 and DVR 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 HD
Camera Type	Analog	PTZ - SDI or IP w/Infrared Illuminator	PTZ - IP High Definition
Lens	8mm / 2.8 mm	4.7mm - 94.0mm	4.3mm - 139.0mm
Image Sensor	Sharp CCD	1/3" 2.2M Pixel CMOS Sensor	2MP CMOS High Definition
Resolution	510 x 492 / 420 TV lines	1920 x 1080 pixels - 1080p	1080 x 720
Optical Zoom / Digital Zoom	Fixed	20x / 12x	30x / 10x
Low Light	0 LUX with 10 IR LED's	0.0005 LUX with 12 IR LED's / 120m	N/A
Pan & Tilt	No	360° endless pan / 15° - 270° tilt	360° endless pan and tilt
Ingress Protection	IP67 - Waterproof	IP66 - Outdoors	IP67 - Waterproof



2 Camera System



Video + Thermal

Feature	Silent Sentinel Oculus HD	Silent Sentinel Oculus IR HD
Camera Type	PTZ - SDI or IP	PTZ - SDI or IP w/Infrared Illuminator - 100 meters
Lens	4.3mm to 129.0mm	4.3mm to 129.0mm
Image Sensor	1/2.8" type Exmor CMOS sensor	1/2.8" type Exmor CMOS sensor
Resolution	2.13MP	
Optical Zoom / Digital Zoom	30x / 12x	30x / 12x
Low Light	Color 0.01 lux / Mono 0.0008 lux	
Signal System	HD: 1080p / SD: NTSC/PAL	
Pan & Tilt	360° pan / +90° to -30° tilt	
Ingress Protection	IP67 - Waterproof	
Communications	Pelco-D, Pelco-P, CBC OCP485, Forward Vision Mic1 FV300, Philips, Vicon	
Camera Warranty	2 years	

Video Camera Feature	Silent Sentinel Oculus TI HD	Thermal Camera Feature	Specification
Camera Type	PTZ - SDI or IP	Sensor type	Uncooled VOx Microbolometer
Lens	4.3mm to 129.0mm	Pixel size	17μ
Image Sensor	1/2.8" type Exmor CMOS sensor	Spectral band	8-14μm
Resolution	2.13MP	Thermal sensitivity	<50mK
Optical Zoom / Digital Zoom	30x / 12x	Array format	320 x 240 or 640 x 480
Low Light	Color 0.01 lux Mono 0.0008 lux	Frames rates	9Hz, 30Hz
Signal System	HD: 1080p / SD: NTSC/PAL	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
Communications	Pelco-D, Pelco-P, CBC OCP485, Forward Vision Mic1 FV300, Philips, Vicon	FOV	19mm (other FOV available)
Camera Warranty	2 years		

LED LIGHTING UPGRADE KITS

nightscan[®]

The latest in LED light technology is now available for many in-service halogen and HID Night Scan light towers. Will-Burt has created retrofit kit packages with 2, 4 and 6 lights and 12 / 24 VDC and 120 / 240 VAC options. The most popular light brands are available from FRC, Whelen and Will-Burt. Upgrade today and experience the benefits of LED scene lighting – longer life, low power consumption and rugged reliability. Available for do-it-yourself installation or contact Will-Burt for factory installation.

In just a few minutes we can determine if your Night Scan is eligible for an LED upgrade:

1. Does the RCP unit (box at top of mast where lights connect) have square, convex plastic covers? If yes, continue, if no, the light tower cannot be upgraded.
2. Find the part number (begins with NS) and model number (9 digit number) from the data plate located near the base of the mast.

9 digit number: _____

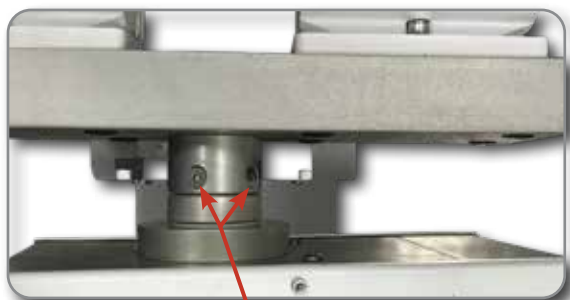
NS: _____

3. Determine maximum total width and maximum height from top of RCP available for new light package. Is the unit in a well? Are there other obstructions? LED light fixtures are often wider than halogen fixtures.

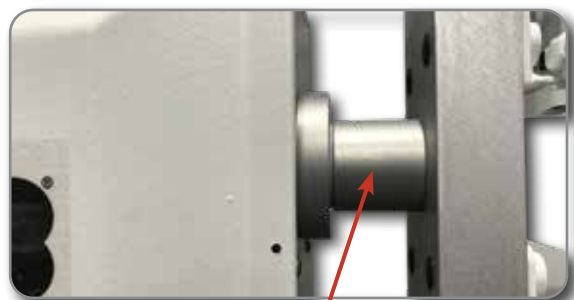
Maximum width: _____

Maximum height from top of RCP: _____

4. Are the current lights connected via a shaft or collar?



Collar has screws



Shaft is connected internally - No visible screws

5. Call Will-Burt to review your options and place your order 330-684-4000.

Available for do-it-yourself or Will-Burt Factory Service installation.

FRC

WHELEN

nightscan[®]



SPECTRA



EVOLUTION II



Pioneer Plus
Spot / Flood



Night Scan
XL 200



W3 WILL-BURT
140



sirion
by Will-Burt

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	Vertical	RCP Style
FRC	SPECTRA	5	12	2	40,000	460	x	x			Collar
Whelen	Pioneer Plus Spot/Flood	5	12	2	32,000	300	x	x			Collar
Whelen	Pioneer Plus Spot/Flood	5	12	4	64,000	600	x	x			Collar
Will-Burt	Will-Burt WB 140	5	12/24*	2	28,000	100	x	x			Collar
Will-Burt	Will-Burt WB 140	5	12/24*	4	56,000	200	x	x	x	x	Collar
Will-Burt	Night Scan X 200	Lifetime	12/24*	2	40,000	250	x	x			Collar
Will-Burt	Night Scan X 200	Lifetime	12/24*	4	80,000	500	x	x	x	x	Collar
Will-Burt	Night Scan XL 200	Lifetime	12/24*	2	40,000	250	x	x			Collar
Will-Burt	Night Scan XL 200	Lifetime	12/24*	4	80,000	500	x	x	x	x	Collar
F R C	SPECTRA	5	24	4	80,000	920		x	x		Collar
Whelen	Pioneer Plus Spot/Flood	5	24	2	32,000	300	x	x			Collar
Whelen	Pioneer Plus Spot/Flood	5	24	4	64,000	600	x	x	x	x	Collar
F R C	SPECTRA	5	120	2	40,000	460	x	x			Collar
F R C	SPECTRA	5	120	4	80,000	920		x	x	x	Collar
F R C	SPECTRA Max	5	120	4	112,000	1,344			x	x	Collar
F R C	SPECTRA Max-S	5	120	4	112,000	1,344			x	x	Collar
Whelen	Pioneer Plus Spot/Flood	5	120	2	30,000	300	x	x			Collar
Whelen	Pioneer Plus Spot/Flood	5	120	4	60,000	600	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	Collar
F R C	SPECTRA Max	5	240	2	56,000	672	x	x			Collar
F R C	SPECTRA Max	5	240	4	112,000	1,344			x	x	Collar
F R C	SPECTRA Max-S	5	240	4	112,000	1,344			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	Vertical	RCP Style
F R C	Magnafire 1000 AC	0	240	4	88,000	4000			x	x	Apple Shaft
Will-Burt	Will-Burt WB 140	5	12/24*	2	28,000	100			x	x	Apple Shaft
Will-Burt	Will-Burt WB 140	5	12/24*	4	56,000	200			x	x	Apple Shaft
Will-Burt	Night Scan X 200	Lifetime	12/24*	2	40,000	250			x	x	Apple Shaft
Will-Burt	Night Scan X 200	Lifetime	12/24*	4	80,000	500			x	x	Apple Shaft
Will-Burt	Night Scan XL 200	Lifetime	120/240	2	40,000	250			x	x	Apple Shaft
Will-Burt	Night Scan XL 200	Lifetime	120/240	4	80,000	500			x	x	Apple Shaft
FRC	Magnafire 1000 AC	0	240	4	88,000	4000			x	x	Flange Shaft
Will-Burt	Will-Burt WB 140	5	12/24*	2	28,000	100			x	x	Flange Shaft
Will-Burt	Will-Burt WB 140	5	12/24*	4	56,000	200			x	x	Flange Shaft
Will-Burt	Night Scan X 200	Lifetime	12/24*	2	40,000	250			x	x	Flange Shaft
Will-Burt	Night Scan X 200	Lifetime	12/24*	4	80,000	500			x	x	Flange Shaft
Will-Burt	Night Scan XL 200	Lifetime	120/240	2	40,000	250			x	x	Flange Shaft
Will-Burt	Night Scan XL 200	Lifetime	120/240	4	80,000	500			x	x	Flange Shaft
Will-Burt	Will-Burt WB 140	5	12/24*	2	28,000	100	x	x			Shaft
Will-Burt	Will-Burt WB 140	5	12/24*	4	56,000	200	x	x			Shaft
Will-Burt	Will-Burt WB 140	5	12/24*	4	56,000	200	x	x	x	x	Shaft
Will-Burt	Night Scan X 200	Lifetime	12/24*	2	40,000	250	x	x			Shaft
Will-Burt	Night Scan X 200	Lifetime	12/24*	4	80,000	500	x	x			Shaft
Will-Burt	Night Scan X 200	Lifetime	12/24*	4	80,000	500	x	x	x	x	Shaft
Will-Burt	Night Scan X 200	Lifetime	12/24*	6	120,000	750			x	x	Shaft
Will-Burt	Night Scan XL 200	Lifetime	12/24*	2	40,000	250	x	x			Shaft
Will-Burt	Night Scan XL 200	Lifetime	12/24*	4	80,000	500	x	x			Shaft
Will-Burt	Night Scan XL 200	Lifetime	12/24*	4	80,000	500	x	x	x	x	Shaft
Will-Burt	Night Scan XL 200	Lifetime	12/24*	6	120,000	750			x	x	Shaft
Will-Burt	Night Scan Sirion	10	120/240	2	220,000	1200			x	x	Shaft
F R C	SPECTRA	5	120	6	120,000	1380			x	x	Shaft
F R C	SPECTRA Max	5	120	4	112,000	1344			x	x	Shaft
F R C	SPECTRA Max	5	120	6	168,000	2016			x	x	Shaft
F R C	SPECTRA Max-S	5	120	4	112,000	1344			x	x	Shaft
F R C	SPECTRA Max-S	5	120	6	168,000	2016			x	x	Shaft
Whelen	Pioneer Plus Spot/Flood	5	120	4	60,000	600	x	x	x	x	Shaft
Whelen	Pioneer Plus Spot/Flood	5	120	6	90,000	900			x	x	Shaft
F R C	SPECTRA	5	240	4	80,000	920		x	x		Shaft
F R C	SPECTRA	5	240	6	120,000	1380			x	x	Shaft
F R C	SPECTRA Max	5	240	4	112,000	1344			x	x	Shaft
F R C	SPECTRA Max	5	240	6	168,000	2016			x	x	Shaft
F R C	SPECTRA Max-S	5	240	4	112,000	1344			x	x	Shaft
F R C	SPECTRA Max-S	5	240	6	168,000	2016			x	x	Shaft

*AC to DC Voltage Kits Available / Shaft retrofits only to be installed by dealer or Will-Burt

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. Contact your Will-Burt sales representative today.

BROW LIGHTS – FROM 4" TO 72"



SURFACE MOUNT SCENE LIGHTING



RECESSED SCENE LIGHTING



LED HEADLIGHTS



WORK LIGHTS



POLE LIGHTS



LONG-RANGE LIGHT CANNONS, COMPARTMENT LIGHTS, RETROFIT LIGHTS AND MORE....



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The Will-Burt Company, headquartered in Orrville, Ohio, USA, is the world's premier manufacturer of mobile telescoping masts, towers and pan and tilt positioners. We offer virtually every mobile payload elevation and integration solution for defense, government, first responders, cellular and mobile, broadcast, energy production and other markets. Will-Burt also offers contract manufacturing, metal fabrication, powder-coating, and rapid prototyping services. Will-Burt is an international company with offices and manufacturing in the USA, England, and Germany along with offices in Singapore and a joint venture in Turkey. All Will-Burt Company manufacturing locations are backed by a certified ISO 9001:2015 Quality Management System. Incorporated in 1918, Will-Burt is 100% employee-owned and is classified as a small business.



WILL-BURT NORTH AMERICA WORLD HEADQUARTERS

401 Collins Blvd., Orrville, OH USA 44667
Telephone: +1 330 682 7015
Mast Customer Service: +1 330 684 4000
Fax: +1 330 684 1190
Email: info@willburt.com

WILL-BURT GERMANY

Fischergasse 25
D-91344 Waischenfeld
Germany
Telephone: +49 9202 180
Fax: +49 9202 1811
Email: info@willburt.com

WILL-BURT UNITED KINGDOM

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

WILL-BURT ASIA

SINGAPORE SALES OFFICE
1 Fullerton Road, #02-01 One Fullerton,
Singapore 049213
Telephone: +65 6832 5689
Fax: +65 6722 0664
Email: info@willburt.com

INTEGRATED TOWER SYSTEMS A WILL-BURT COMPANY

2703 Dawson Road, Tulsa, OK 74110
Telephone: +1 800 850 8535
Fax: +1 918 749 8537
Email: programs@itstowers.com

WILL-BURT TURKEY

2118 Cad. No:4, B101
Mustafa Kemal Mah. 06530 Cankaya
Ankara, Turkey
Telephone: +1 202 820 2184
Email: HBeasey@willburt.com