nightscan LITE®

MOBILE LIGHTING SOLUTIONS

W·B
WILL-BURT

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.

CONTENTS

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 is energy efficient – 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
- CE Certified / NFPA Compliant
- Patent pending

SPECIFICATIONS

Model	719990281 -PA09	719990290 -PA09	5605403 -PA09	5605401 -PA09	5605407 -PA09	5605405 -PA09
Extended Height	2 meters					
Number of LED Lamps	2	4	2	4	2	4
Raw Lumens	40,000	80,000	40,000	80,000	40,000	80,000
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					
System Weight	87 kg	93 kg	90 kg	96 kg	91 kg	97 kg
Input Voltage	24 VDC	24 VDC	12 VDC*	12 VDC*	110 / 220 VAC*	110 / 220 VAC*
Maximum Amps	30	40	60	80	110 VAC 6 amps / 220 VAC 3 amps	110 VAC 8 amps / 220 VAC 4 amps

*includes external power supply

Extends 2 meters above the fire apparatus for maximum scene illumination

Provides over 384 sq. meters of safe work area at 30+ lux

Dual optics for near and far illumination

Can be installed on nearly any flat vehicle or trailer surface.

The wired controller allows for full 360° pan & tilt remote light positioning.

Tested and proven to be reliable in extreme environments.

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.

Profiler narrow
light fixture option

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

Night Scan® Chief
with 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
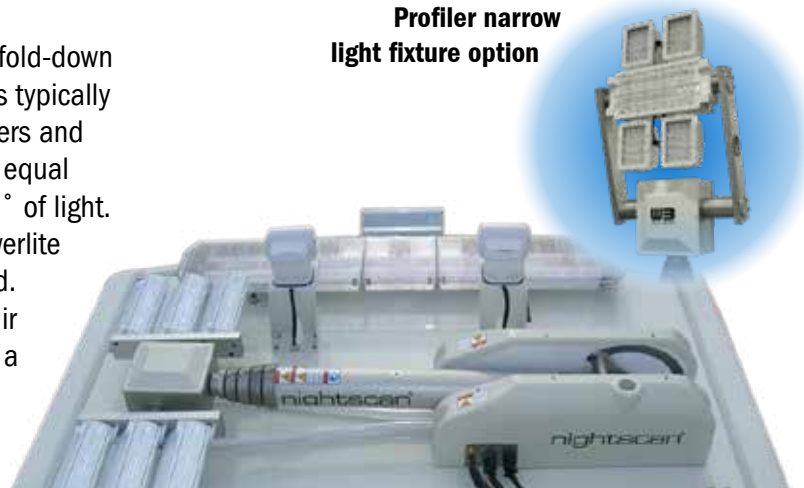
Night Scan® Powerlite	2.3	3.0	4.5
Height (ft.) / (m)	7.5 / 2.3	10 / 3	15 / 4.5
System Weight Range (lb.) / (kg)	139 lb. / 63 kg – 178 lb. / 81 kg		
Auto Deploy & Auto Stow®	Yes	Yes	Yes
Time to Light	8 seconds	12 seconds	14 seconds
Number of Lights Available	4 - Night Scan XL 200 only	4 or 6	4 or 6
Light Type Available	LED	LED / Halogen	LED / Halogen
Maximum Lumens	80000	220000	220000
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®
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

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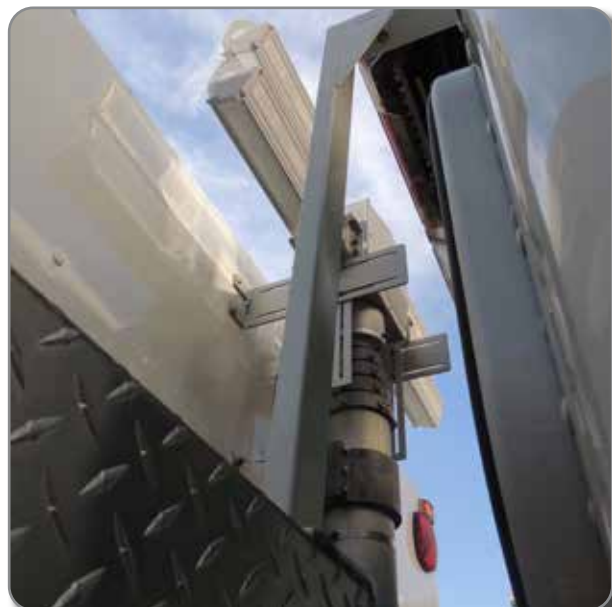
*Varies depending on light package – 125% NFPA Safety Factor

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	AKRON BRASS COMPANY FRC WHELEN nightscan	FRC

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

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
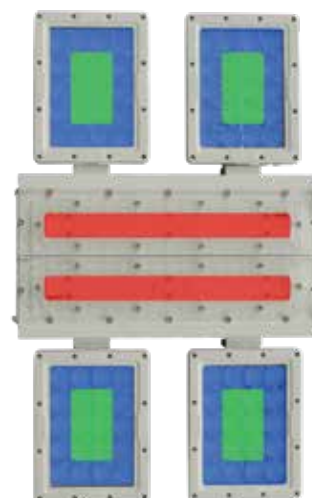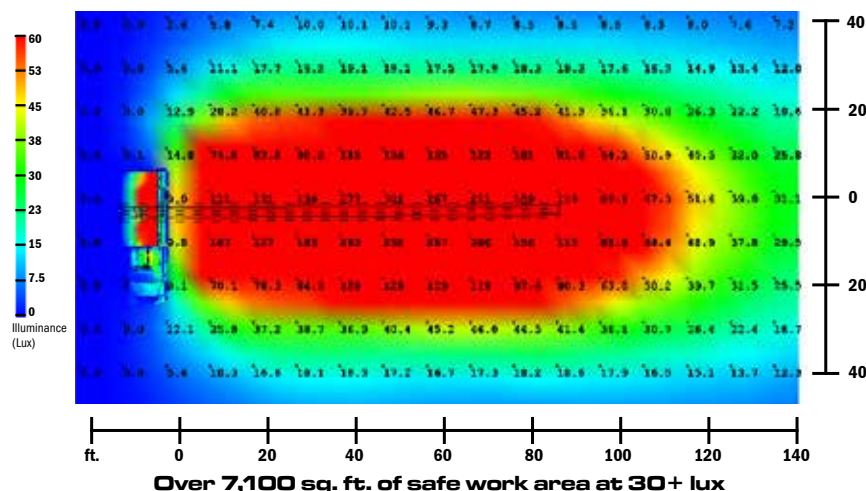120 VAC / 11 amps, 240 VAC / 5.5 amps

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

Over 7,100 sq. ft. of safe work area at 30+ lux

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.

Night Scan Universal Wireless Controller

WIRED REMOTES		WIRELESS REMOTE	PANEL MOUNT CONTROLS	
Chief and Vertical Complete	Powerlite, Xtreme and Vertical	All Night Scan Models	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
								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		
FRC	EVOLUTION	5	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		
			LED	20000	160	24	6.5		2 / 4	2 / 4		
FRC	SPECTRA	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	SPECTRA MAX	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	SPECTRA MAX-I	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		
FRC	MAGNAFIRE	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		
WHELEN	Pioneer Plus Spot / Flood	5	LED	9260	75	12.8	6	2	2 / 4	2 / 4	2 / 3	2 / 3
WHELEN	Pioneer Plus Flood / Flood	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	Pioneer Plus Spot / Flood	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	Pioneer Plus Max	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	nightscan X 200	5	LED	20000	125	12 / 24	9.2 / 4.6			6	2/3	2/3
	nightscan XL 200	10	LED	20000	125	12 / 24	9.2 / 4.6	2 / 4	2 / 4	2 / 4	2 / 3	2 / 3
			LED	20000	125	120 / 240	1.1 / .55	2 / 4	2 / 4	2 / 4	2 / 3	2 / 3
	sirion	10	LED	110000	600	12 / 24	50 / 25					
			LED	110000	600	120 / 240	5.5 / 2.75					

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

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

Powerlite			Powerlite Profiler		Powerlite Xtreme		Vertical Complete	Vertical			
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.
	4	4			2	2	2				
							2 / 4				
							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				
	4 / 6	4 / 6	3	3	2 / 4	2	2 / 4	4 / 6	4 / 6	4 / 6	4 / 6
	4 / 6	4 / 6	3	3			2	4 / 6	4 / 6	4 / 6	4 / 6
	4	4	3	3			2				
	4 / 6	4 / 6	3	3	2 / 4	2	2	4 / 6	4 / 6	4 / 6	4 / 6
	4 / 6	4 / 6	3	3			2	4 / 6	4 / 6	4 / 6	4 / 6
	4	4	3	3			2				
	4 / 6	4 / 6	3	3	2 / 4	2	2	4 / 6	4 / 6	4 / 6	4 / 6
	4 / 6	4 / 6			4 / 6	2 / 4	2 / 4	4 / 6	4 / 6	4 / 6	4 / 6
	4 / 6	4 / 6			4 / 6	2 / 4	2 / 4	4 / 6	4 / 6	4 / 6	4 / 6
	4 / 6	4 / 6	3	3	4 / 6	2 / 4	2 / 4	4 / 6	4 / 6	4 / 6	4 / 6
	4 / 6	4 / 6	3	3	4 / 6	2 / 4	2 / 4	4 / 6	4 / 6	4 / 6	4 / 6
	4 / 6	4 / 6	3	3	4 / 6	2 / 4	2 / 4	4 / 6	4 / 6	4 / 6	4 / 6
	4 / 6	4 / 6	3	3	4 / 6	2 / 4	2 / 4	4 / 6	4 / 6	4 / 6	4 / 6
							2 / 4				
	4 / 6	4 / 6	3	3	4 / 6	2 / 4	2 / 4	4 / 6	4 / 6	4 / 6	4 / 6
	4 / 6	4 / 6	3	3	4 / 6	2 / 4	2 / 4	4 / 6	4 / 6	4 / 6	4 / 6
	4 / 6	4 / 6	3	3	4 / 6	4 / 6	2 / 4	4 / 6	4 / 6	4 / 6	4 / 6
	4 / 6	4 / 6	3	3	4 / 6	2 / 4	2 / 4	4 / 6	4 / 6	4 / 6	4 / 6
							2 / 4				
	4 / 6	4 / 6			2 / 4	2	2 / 4	4	4	4	
	4 / 6	4 / 6			2 / 4	2	2 / 4	4 / 6	4 / 6	4 / 6	4 / 6
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

Revised: June, 2019_v21

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	5 Years
Optics	Double – Spot / Flood
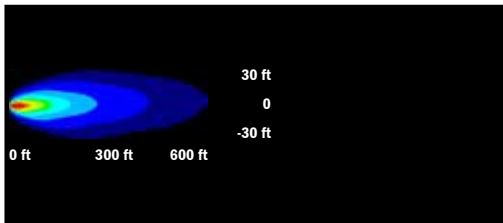
Night Scan X200 -
6 Lights

Model	XL200
Raw Lumens	20,000 each
Effective Lumens	11,362 each
Warranty	10 Years
Optics	Double – Spot / Flood
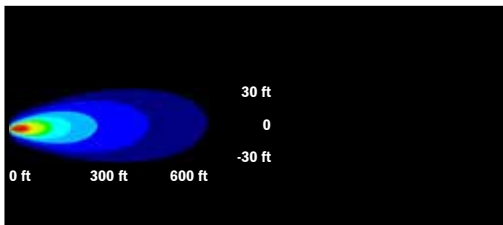
Night Scan XL200 -
6 Lights

Model	Sirion
Raw Lumens	110,000 each
Effective Lumens	61,170 each
Warranty	10 Years
Optics	Triple – Spot / Short & Long Flood

Night Scan Sirion -
2 Lights

100.0 lx	80.00 lx	60.00 lx	40.00 lx	30.00 lx
15.00 lx	10.00 lx	5.000 lx	2.000 lx	1.000 lx
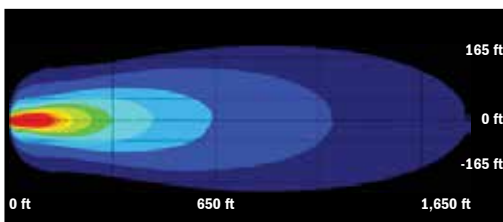
The Night Scan LED lamps deliver maximum lighting performance and will always create light through out the mission. The 220,000 lumen Sirion provides usable light for more than the area of a football field.

360' / 100m

160' / 49m
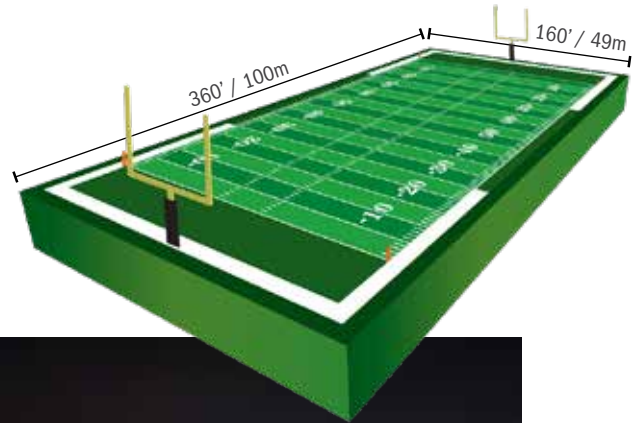
Night Scan X200 - 6 Lights

Night Scan XL200 - 6 Lights

Night Scan Sirion - 2 Lights

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

(2) Handheld Remote Controls Included

nightscan sp⊙t

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.

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

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**

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

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 122.4mm	4.3mm to 129.0mm	3.4mm to 122.4mm	4.3mm to 129.0mm
Image Sensor	1/4-type Exview HAD CCD	1/2.8" type Exmor CMOS sensor	1/4-type Exview HAD CCD	1/2.8" type Exmor CMOS sensor
Resolution	550 TV lines SD	2.13MP	550 TV lines	2.13MP
Optical Zoom / Digital Zoom	36x / 12x	30x / 12x	36x / 12x	30x / 12x
Low Light	Color 0.1 lux Mono 0.01 lux	Color 0.01 lux Mono 0.0008 lux	Color 0.1 lux Mono 0.01 lux	Color 0.01 lux Mono 0.0008 lux
Signal System	NTSC/PAL	HD: 1080p / SD: NTSC/PAL	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			

2 Camera System   **Video + Thermal**

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
Lens	3.4mm to 122.4mm	4.3mm to 129.0mm	Pixel size	17μ
Image Sensor	1/4-type Exview HAD CCD	1/2.8" type Exmor CMOS sensor	Spectral band	8-14μm
Resolution	550 TV lines	2.13MP	Thermal sensitivity	<50mK
Optical Zoom / Digital Zoom	36x / 12x	30x / 12x	Array format	320 x 240 or 640 x 480
Low Light	Color 0.1 lux Mono 0.01 lux	Color 0.01 lux Mono 0.0008 lux	Frames rates	9Hz, 30Hz
Signal System	NTSC /PAL	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	35mm (other FOV available)
Camera Warranty	2 years			

LED LIGHTING UPGRADE KITS

nightscan®

Collar Light Assembly Connection

Brand	Model	Light Warranty	Volts	Number of Lights	Total Lumens	Total Watts	1.8	2.3	Powerlite	Vertical	RCP
FRC	SPECTRA	5	12	2	40,000	460	x	x			Collar
Whelen	Pioneer Plus Flood	5	12	2	16,000	150	x	x			Collar
Whelen	Pioneer Plus Flood	5	12	2	32,000	300	x	x			Collar
Whelen	Pioneer Plus Flood/Flood	5	12	4	32,000	300	x	x			Collar
Whelen	Pioneer Plus Flood/Flood	5	12	2	64,000	600	x	x			Collar
Whelen	Pioneer Plus Spot/Flood	5	12	4	32,000	300	x	x			Collar
Whelen	Pioneer Plus Spot/Flood	5	12	2	64,000	600	x	x			Collar
F R C	Evolution II	5	12/24	2	22,000	180	x	x			Collar
F R C	Evolution II	5	12/24	2	40,000	320	x	x			Collar
F R C	Evolution II	5	12/24	4	44,000	360	x	x	x	x	Collar
F R C	Evolution II	5	12/24	4	80,000	640	x	x	x	x	Collar
Will-Burt	Night Scan XL200	10	12/24	2	40,000	250	x	x			Collar
Will-Burt	Night Scan XL200	10	12/24	4	80,000	500	x	x	x	x	Collar
Will-Burt	Night Scan XL200	10	12/24	6	120,000	750			x	x	Collar
Will-Burt	Night Scan XL90	10	12/24	2	18,000	180	x	x			Collar
Will-Burt	Night Scan XL90	10	12/24	4	36,000	360	x	x			Collar
F R C	Evolution II	5	24	4	80,000	640	x	x	x	x	Collar
F R C	SPECTRA	5	24	4	80,000	920		x	x		Collar
Whelen	Pioneer Plus Flood	5	24	2	16,000	150	x	x			Collar
Whelen	Pioneer Plus Flood	5	24	4	32,000	300	x	x			Collar
Whelen	Pioneer Plus Flood/Flood	5	24	2	32,000	300	x	x			Collar
Whelen	Pioneer Plus Flood/Flood	5	24	4	64,000	600	x	x	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	1344			x	x	Collar
F R C	SPECTRA Max-S	5	120	4	112,000	1344			x	x	Collar
Whelen	Pioneer Plus Flood	5	120	2	16,000	150	x	x			Collar
Whelen	Pioneer Plus Flood	5	120	4	32,000	300	x	x			Collar
Whelen	Pioneer Plus Flood/Flood	5	120	2	30,000	300	x	x			Collar
Whelen	Pioneer Plus Flood/Flood	5	120	4	60,000	600	x	x	x	x	Collar
Whelen	Pioneer Plus Flood/Flood	5	120	6	90,000	900			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
Whelen	Pioneer Plus Spot/Flood	5	120	6	90,000	900			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	4	112,000	1344			x	x	Collar
F R C	SPECTRA Max-S	5	240	4	112,000	1344			x	x	Collar

Shaft Light Assembly Connection

Brand	Model	Light Warranty	Volts	Number of Lights	Total Lumens	Total Watts	1.8	2.3	Powerlite	Vertical	RCP
F R C	Magnafire 1000 AC	0	240	4	88,000	4000			x	x	Apple Shaft
Will-Burt	Night Scan XL200	10	120/240	2	40,000	250			x	x	Apple Shaft
Will-Burt	Night Scan XL200	10	120/240	4	80,000	500			x	x	Apple Shaft
F R C	Magnafire 1000 AC	0	240	4	88,000	4000			x	x	Flange Shaft
Will-Burt	Night Scan XL200	10	120/240	2	40,000	250			x	x	Flange Shaft
Will-Burt	Night Scan XL200	10	120/240	4	80,000	500			x	x	Flange Shaft
F R C	Evolution II	5	12	4	80,000	640	x	x			Shaft
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	12/24	2	22,000	180	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	2	30,000	250	x	x			Shaft
Will-Burt	Night Scan XL200	10	12/24	4	80,000	500	x	x	x	x	Shaft
Will-Burt	Night Scan XL200	10	12/24	6	120,000	750			x	x	Shaft
F R C	Evolution II	5	24	4	44,000	360			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	Shaft
Whelen	Pioneer Plus Flood	5	24	2	16,000	150	x	x			Shaft
Whelen	Pioneer Plus Flood	5	24	4	32,000	300	x	x			Shaft
Whelen	Pioneer Plus Flood/Flood	5	24	2	32,000	300	x	x			Shaft
Whelen	Pioneer Plus Flood/Flood	5	24	4	64,000	600	x	x	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 Flood/Flood	5	120	4	60,000	600	x	x	x	x	Shaft
Whelen	Pioneer Plus Flood/Flood	5	120	6	90,000	900			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
Will-Burt	Sirion	10	120/240	2	220,000	1200			x	x	Shaft

nightscan®

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

•FIRETECH•
DISTRIBUTED BY WILL-BURT

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....

CONTACT YOUR SALES REPRESENTATIVE TODAY

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 payload elevation and integration solution from the top brands; Will-Burt, GEROH, Integrated Tower Systems (ITS) and MAD – for defense, government, first responders, cellular, broadcast, energy production and other markets. Will-Burt also offers contract manufacturing, metal fabrication, powder-coating, and rapid prototyping services. 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
www.willburt.com

UNITED STATES
WORLD HEADQUARTERS
401 Collins Blvd
Orrville, OH USA 44667
Telephone: 330.682.7015
Mast Customer Service: 330.684.4000
Fax: 330.684.1190
Email: info@willburt.com

INTEGRATED TOWER SYSTEMS
A WILL-BURT COMPANY
2703 Dawson Road, Tulsa, OK 74110
Telephone: 800.850.8535
Fax: 918.749.8537
Email: programs@itstowers.com

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

WILL-BURT TURKEY
2118. Cad. No: 4, B101
Mustafa Kemal Mah. 06530 Çankaya
Ankara, Turkey
Telephone: +1 202 820 2184

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

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