

SOLVEIL IR Surveillance System

Product Data Sheet

Platform Highlights

- ✓ 720p Megapixel resolution
- ✓ Configurable frame rate from 1-15fps
- ✓ 100% Solar-powered IR day/night camera
- ✓ IR illumination up to 150 feet*
- ✓ Ultra-low power design consumes a nominal 3/4 Watts of power**
- ✓ Internal batteries provides minimum five days of continuous power
- ✓ Highly reliable wireless communication up to 1/2 mile
- ✓ Open platform compatible with today's leading video management software (VMS)
- ✓ Coexists with other wireless infrastructures and complies with global unlicensed frequency bands
- ✓ Rapid installation and redeployment due to cable-free design
- ✓ Comprehensive platform supports multiple cameras per hub (30fps shared)
- ✓ Flexible design delivers ease of scalability and expansion



SOLVEIL™ is a solar-powered, wireless surveillance solution unencumbered by the boundaries of traditional video security systems. The platform enables users to achieve high-resolution video coverage in perimeter and remote areas for enhanced security and operations monitoring. SOLVEIL is a powerful and highly reliable megapixel surveillance solution.

Benefits

SOLVEIL IR incorporates an energy-efficient IR illuminator to ensure reliability day/night functionality and 24/7 video recording in outdoor, low-light environments. Operating on a nominal 3/4 Watts, SOLVEIL is the most power-efficient megapixel surveillance camera available on today's market. It captures and transmits live video up to a 1/2 mile away and provides reliable performance with high availability design. The platform supplies a minimum of five days of back-up power on a single charge of its integrated, long-life battery packs.

SOLVEIL delivers ease of installation because of its integrated design, which allows users to redeploy the solution across remote and isolated sites. Its unique zero-cable design minimizes deployment time, reduces installation complexity and limits business disruption because there is no need for trenching.



SOLVEIL is available as a bundled solution and includes all the components necessary to quickly install and manage the system. It easily integrates with existing surveillance infrastructure and is compatible with today's leading video and security management platforms. SOLVEIL incorporates robust security features to ensure security and video data is protected. Its robust wireless network protocol ensures high availability even in the event of network disruptions.

SOLVEIL, powered by MicroPower, was founded on the idea that people and critical assets are often in remote or difficult to reach locations – securing and monitoring them should not be constrained by available infrastructure. Through innovative research and extensive development in a diverse set of security applications, MicroPower pioneered a comprehensive platform that reduces wireless camera power consumption by over 90 percent and eliminates the need for trenching. Our solar technology is based upon a global NASA database of weather patterns over the past twenty years. MicroPower solutions are available through certified partners globally.

* Detect at 150 feet (45.72 meters), recognize at 100 feet (30.48 meters), identify at 50 feet (15.24 meters).

** Power consumption rated at 5fps, 0.9 Watts at 10fps and 1 Watt at 15fps.

SOLVEIL^{HD} IR Surveillance System – Technical Specifications

CAMERA: SLV-C30S-1011 & 1040 IR SERIES		HUB: SLV-H20HA	
			
Physical			
Camera Dimensions	17.63" x 5.63" x 5.38" (44.78 cm x 14.30 cm x 13.67 cm)	Hub Dimensions	7.75" x 7.75" x 2.63" (19.69 cm x 19.69 cm x 6.68 cm)
Camera Weight	6.3lbs (2.86kg)	Hub Weight	3.4lbs (1.54kg)
Solar Panel Dimensions	<ul style="list-style-type: none"> 15W – 17.00" x 14.13" x 1.19" (43.18 cm x 35.89 cm x 3.02 cm) 20W – 22.75" x 14.13" x 1.19" (57.79 cm x 35.89 cm x 3.02 cm) 30W – 20.00" x 21.31" x 1.19" (50.80 cm x 54.13 cm x 3.02 cm) 45W – 26.56" x 21.06" x 1.19" (64.92 cm x 53.49 cm x 3.02 cm) 	Antenna Dimensions	4" x 4" x 3.5" (10.16 cm x 10.16 cm x 8.89 cm)
Solar Panel Weight	<ul style="list-style-type: none"> 15W – 4.5lbs (2.04kg) with bracket – 6.55lbs (2.97kg) 20W – 6.15lbs (2.79kg) with bracket – 8.20lbs (3.72kg) 30W – 7.5lbs (3.40kg) with bracket – 9.55lbs (4.33kg) 45W – 9.35lbs (4.24kg) with bracket – 16.86lbs (7.65kg) 	Antenna Weight	1.1lbs (0.5kg)
Environmental			
Camera Operating Temperature	-40°C to 50°C (-40°F to 122°F)	Hub Operating Temperature	0°C to 50°C (32°F to 122°F)
Camera Charging Temperature	-20°C to 50°C (-4°F to 122°F)	Hub Fanless Housing	Thermal convection cooling for hub
Compliance	IP66 Compliant		
Antenna	Weatherized antenna assembly		
Technology			
Wireless Protocol	TrustLinx™ secure digital radio frequency: 2.4GHz		
Range	1/2 mile (800m)		
Imager	1/3" SOC 720p CMOS	Frame Rate (1-15 camera)	Up to 30fps shared at hub
Lens	Standard CCTV CS thread (2.8-11mm standard, 10-40mm varifocal telephoto option)		
Video			
Configuration	1-15fps for each camera, continuous 24/7 operation	Compression Format	Video streams via Ethernet H.264/MPEG4/MJPEG
Resolution	1 Megapixel (1280 x 720P)	Transport Encoding	RTSP and HTTP
Compatibility	Compatible with most IP-based video management software platforms listed on www.micropower.com .		
Accessories			
Included	Directional antenna, 4ft low loss 195 RF cable, one solar panel, embedded Lithium-ion battery, mounting brackets, installation guide	Additional	Directional antenna, 15ft low loss 195 RF cable, mounting brackets Set up and diagnostic software tool

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