

# SOLVEIL Surveillance System

## Product Data Sheet

### Platform Highlights

- ✓ 720p Megapixel resolution
- ✓ Configurable frame rate from 1-15fps
- ✓ 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
- ✓ 100% Solar-powered, wireless integrated camera
- ✓ 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 delivers reliable and secure video surveillance coverage in a compact form factor. 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.

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

# SOLVEIL<sup>HD</sup> Surveillance System – Technical Specifications

| CAMERA: SLV-C30S-1011 & 1040 SERIES   |  | HUB: SLV-H20HA   |   |
|---|--|--|---|
|  |  |  |   |
| <b>Physical</b>   |  |  |   |
| Camera Dimensions   | 17.63" x 5.63" x 5.38"<br>(44.78 cm x 14.30 cm x 13.67 cm)   | Hub Dimensions   | 7.75" x 7.75" x 2.63"<br>(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"> <li>15W – 17.00" x 14.13" x 1.19"<br/>(43.18 cm x 35.89 cm x 3.02 cm)</li> <li>20W – 22.75" x 14.13" x 1.19"<br/>(57.79 cm x 35.89 cm x 3.02 cm)</li> <li>30W – 20.00" x 21.31" x 1.19"<br/>(50.80 cm x 54.13 cm x 3.02 cm)</li> <li>45W – 26.56" x 21.06" x 1.19"<br/>(64.92 cm x 53.49 cm x 3.02 cm)</li> </ul> | Antenna Dimensions   | 4" x 4" x 3.5"<br>(10.16 cm x 10.16 cm x 8.89 cm)   |
| Solar Panel Weight  | <ul style="list-style-type: none"> <li>15W – 4.5lbs (2.04kg)<br/>with bracket – 6.55lbs (2.97kg)</li> <li>20W – 6.15lbs (2.79kg)<br/>with bracket – 8.20lbs (3.72kg)</li> <li>30W – 7.5lbs (3.40kg)<br/>with bracket – 9.55lbs (4.33kg)</li> <li>45W – 9.35lbs (4.24kg)<br/>with bracket – 16.86lbs (7.65kg)</li> </ul>                              | Antenna Weight   | 1.1lbs (0.5kg)  |
| <b>Environmental</b>  |  |  |   |
| 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   |  |   |
| <b>Technology</b>   |  |  |   |
| 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<br>(2.8-11mm standard,<br>10-40mm varifocal telephoto option)  |  |   |
| <b>Video</b>  |  |  |   |
| Configuration   | 1-15fps for each camera, continuous 24/7 operation   | Compression Format   | Video streams via Ethernet H.264/<br>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 <a href="http://www.micropower.com">www.micropower.com</a> .   |  |   |
| <b>Accessories</b>  |  |  |   |
| 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<br>Set up and diagnostic software tool |

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