INTELLIGENT REMOTE SITE MONITORING

The SiteWatch PRO2 Series is a second-generation solar/wireless intelligent, remote site monitoring solution, combining **thermal, low-light and color cameras** with video analytics, NVR, solar charge management and 4G/LTE communications into one integrated system. The SiteWatch PRO2 with SiteCloud service is a complete end-to-end advanced remote surveillance system for sites without power and internet. Small and portable, the SiteWatch PRO2 can be installed by one person.

THERMAL + VIDEO ANALYTICS FOR ROBUST MOTION DETECTION

The SiteWatch PRO2's onboard video analytics for detection operates on the built-in thermal camera. This allows for 24/7 monitoring with real-time alerting, while requiring the minimal amount of cellular data. All video analytics are executed inside the camera, and only video relating to actual events are sent to the cloud for archival and viewing. The settings are easily configurable to ignore and mask specific areas like high traffic roads. The camera, combined with SiteCloud, provides real-time alarm routing via SMS, Email and/or popular Central Station systems via the SiteCloud API.

Our patented cameras and software are designed, engineered and manufactured in the USA.
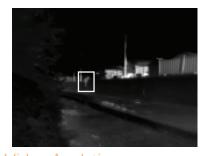

SW PRO2 FEATURES & BENEFITS

- 100% solar, wireless - no internet/power needed onsite
- 24/7 reliable operation, with 5 days / 24 hr battery backup
- 1080p video streaming and recording (configurable)
- Low-light detection with sensitive 1.3MP B/W camera
- 128 GB Built-in edge recording minimizes cellular data usage
- Edge-analytics for detection and real-time alerting
- Long-range motion detection - cover large areas with fewer cameras
- Low-latency triggered image/video capture
- Schedule and automate LiveView capture of still images
- Built-in 4G/LTE and WiFi - nationwide coverage with multiple carriers
- Compact, Light-weight, Portable, 1 person installation

1080p Video Streaming | 128 GB DVR | Thermal & Video Analytics
wireless | portable | all-weather | fast playback | real-time | diy | solar | SWPRO2

Camera/Video

Color / Day Camera

Image Sensor	CMOS
Resolution (still)	1920x1200 (1080p)
Resolution (video)	1920X1080 (1080p)
Video Compression	H.264

Thermal Detection Camera

Image Sensor	LWIR, 8-14 µm
Image Resolution	160X120
Field of View	56°(h) x 71°(diagonal)
Thermal Sensitivity	<50mK

Low-Light B/W Camera

Image Sensor	CMOS
Image Resolution	1.3MP (1280X960)
Minimum Illumination	0.01 lux
Video	H.264 Stream
Field of View	45° (H)
Video Compression	H.264

Video Analytics

Camera Input	Color (Day), Thermal (Night)-configurable
Modes	Motion detection with masking
Motion Detection Range (Thermal)	200' X 56°
Masking	multiple rectangular ignore areas

Edge Recording

Capacity	128GB
Recording	720p, 1080p, 640x480
Scheduler (via SiteCloud)	up to 5 separate schedule segments
Prefetch	automatic uploads of clips on motion events

Illumination (Optional)

Illumination Type	IR
Power	25W
Illumination Angle	60°

SiteCloud Service Related Features

Live Streaming Video
Captured image/video archival and viewing
Camera configuration triggering scheduled image capture
Edge Storage: Schedule, configure, retrieve
Event notifications, trigger events via SMS, email,API
Motion Detection: Video analytics configuration, masking, arming schedules

Interface

Cellular	3G/4G/LTE - multiple carriers available
WiFi	802.11 b/g/n
GPS	Built-in GPS positioning

Power

Solar Power Input	18-24VDC with Maximum Power Point Tracking (MPPT)
Solar Panel	Included, 35W 640X345X25mm
Auxiliary Power Input	18-24VDC
Battery	Integrated rechargeable Lithium Iron Phosphate (LiFePO$_4$). 5 days power
Power/Health Monitoring	Real-time and historical via SiteCloud

Physical

Camera Dimensions	7.5"(W) X 6.0" (D) X 8.5" (H)
Camera Weight	7.5 lbs
Solar Panel Weight	5.5 lbs
Mounting Hardware	Pole/wall mount included

Environmental

Operating Temperature	-20°C (-4°F) to +50°C (122°F)
Enclosure Material	Polycarbonate
Encapsulation	All-Weather IP65

Ordering

SWPRO2V-102	SWPRO2 Solar Camera Kit Includes camera, integrated battery pack, solar panel, mounting brackets. Requires SiteCloud Service for operation. Available carriers: T-Mobile, ATT, Verizon
Available Carriers	T-Mobile, ATT, Verizon (United States) Telus and Rogers (Canada)
Cloud Service	Cellular plans start at 5GB
Optional Accessories	Tripod kit, cable lock

Made in the USA