



Enhanced Outdoor Security with Advanced Algorithm and Anti-masking



VST-897EX Series

Outdoor PIR Motion Sensor Camera

- Analytic detection algorithm to reduce false alarms
- Anti-masking over-the-lens detection via infrared
- HDR for clear and detailed imaging
- OTA firmware updates for ongoing enhancement
- Integrated solar power system (Solar models only)

VST-897EX Series

Outdoor PIR Motion Sensor Camera



VST-897EX Series is a new-generation outdoor PIR motion sensor camera equipped with over-the-lens infrared anti-masking for higher level of security. It comes with an advanced detection algorithm that further reduces false alarms compared to its predecessor. It also supports optional AI functionality for enhanced detection precision and OTA firmware updates for remote system upgrades. The VST-897EX-Solar models are further integrated with solar power system that seamlessly charges the device using sunlight, offering self-sustaining energy and lower maintenance.

The device's detection algorithm analyzes lux levels, temperature, and environmental factors to accurately distinguish between human and non-human motion, further minimizing false alarms. With optional AI functionality, it can identify the captured images contain a human figure, enhancing verification accuracy. Meanwhile, OTA firmware updates ensure the mechanism is most updated without on-site maintenance. Moreover, HDR technology delivers clear, detailed images even in high-contrast lighting. The over-the-lens infrared anti-masking detects any attempt to block or tamper with the lens, while SF1 technology enables fast HD image transmission to the Control Panel for timely and reliable verification.

The sun-powered VST-897EX-Solar models come with solar power design to efficiently harness sunlight to continuously charge the built-in battery, even during operation. By delivering self-sustaining solar energy to battery, the device reduces maintenance costs and save more energy.



Analytic detection algorithm



Anti-masking



HDR imaging



AI function (optional)



OTA firmware update



SF1 transmission



Integrated solar power
(Solar models only)

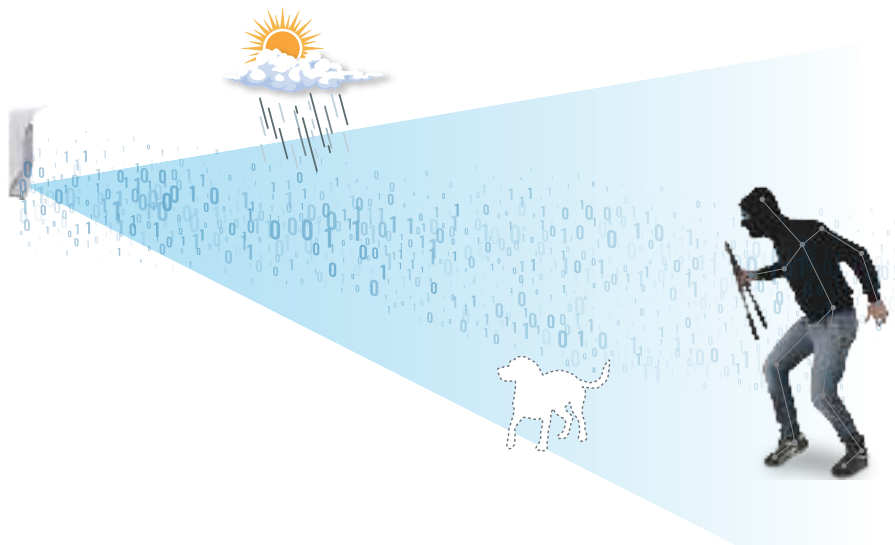
Anti-Masking

Over-the-lens infrared detection instantly identifies any attempt to block, cover, or tamper with the device—essential for outdoor sabotage protection.



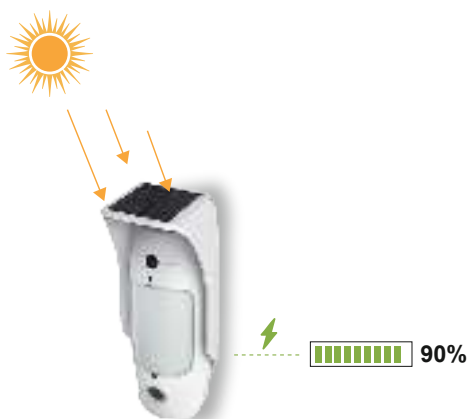
Improved Algorithm for Reduced False Alarms

The newly added analysis algorithm feature evaluates lux, temperature, and motion patterns to accurately distinguish human presence from pets or environmental factors—significantly reducing false alarms.



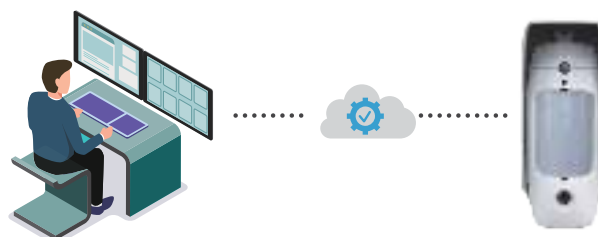
Integrated Solar Power System (Solar models only)

Harnesses solar energy to continuously charge the built-in battery to ensure long-term functionality for remote outdoor locations, reducing maintenance.



OTA Firmware Update

Supports Over-the-Air firmware updates, enabling remote upgrades and system enhancements without on-site maintenance.



HDR Imaging

High Dynamic Range (HDR) improves clarity in high-contrast lighting environments, ensuring visibility in both bright and shadowed areas.



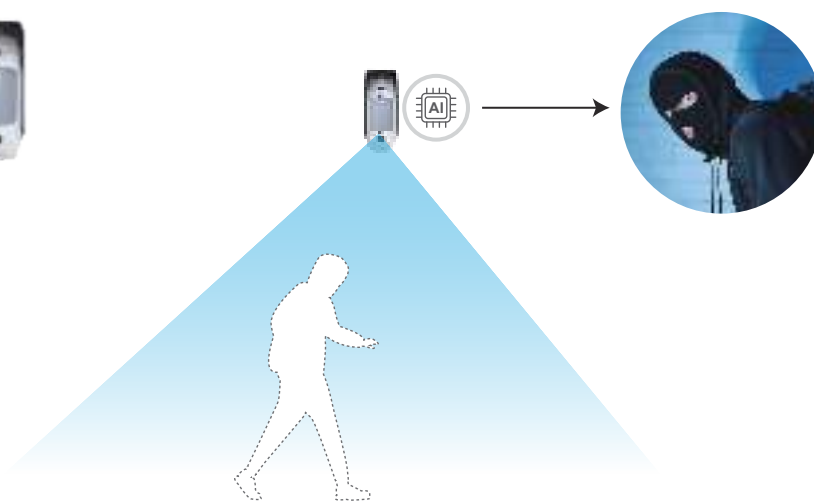
SF1 HD Images and Faster Transmission

The device can transmit HD images to the Control Panel in faster speed, offering clearer visual verification and faster response for real-time security.



AI functionality

Enhances detection accuracy by intelligently identifying images with humans in them, reducing false alarms caused by environmental movement.



Other Features

- Picture quality of up to 1280 x 720 pixels
- A detection range of 10 meters when mounted at 2.3 meters above ground
- Pet immunity enabled / disabled by remote control setting
- Pet weight/height: Up to 25 kilograms
- Three alarm image processing options:
 - One color HD (1280x720 pixels) alarm images
 - Three color VGA (640x480 pixels) alarm images
 - Six color QVGA (320x240 pixels) alarm images
- Delivers one image upon request
- Night illumination capability
 - Warm white fill light covering up to 10 meters
 - Infrared (IR) fill light covering up to 10 meters outdoor
- IPX5 for outdoor usage
- Runs on solar-powered batteries, switches to lithium when needed while device recharges solar batteries (Solar models only)

Specifications

VST-897EX Series

PIR Motion Sensor	
Range	10 meters
Horizontal Angle	90° degrees
Installation Height	2.3 meters
Camera	
Lens	HD CMOS Camera
Field of View	(H) 106° degrees
Resolution	1280 x 720 pixels, 640 x 480 pixels or 320 x 240 pixels
Night Illumination	Warm white fill light covering 10 meters (VST-897EX) Infrared (IR) fill light covering 10 meters (VST-897EX-IL)
Mechanical	
Frequency	868 MHz / 433 MHz
Power Source	1.5V, L91 Lithium batteries x 4
Battery Life	6.25 years*
RF Range	400 m - 900 m in open space
Mounting Options	Wall / Corner mount
Operating Temperature	-20°C to 60°C (-4°F to 140°F)
Operating Humidity	Up to 85% non-condensing @23°C
Dimensions	80 mm x 197 mm x 57 mm

VST-897EX-Solar Series

PIR Motion Sensor	
Range	10 meters
Horizontal Angle	90° degrees
Installation Height	2.3 meters
Camera	
Lens	HD CMOS Camera
Field of View	(H) 106° degrees
Resolution	1280 x 720 pixels, 640 x 480 pixels or 320 x 240 pixels
Night Illumination	Warm white fill light covering 10 meters (VST-897EX-Solar) Infrared (IR) fill light covering 10 meters (VST-897EX-Solar-IL)
Solar Bracket	
Maximum Output Voltage	5V (±0.3V)
Maximum Output Current	0.116A (±5%)
Maximum Power	0.58W (±5%)
Mechanical	
Frequency	868 MHz / 433 MHz
Power Source	3.2V, 600mAh LFP battery x 1 (solar-charged battery) 1.5V, L91 Lithium batteries x 2 (disposable batteries)
Battery Life	LFP: 6 months* Lithium: 3.2 years*

RF Range	400 m - 900 m in open space
Mounting Options	Wall / Corner mount
Operating Temperature	-20°C to 60°C (-4°F to 140°F)
Operating Humidity	Up to 85% non-condensing @23°C
Dimensions	80 mm x 197 mm x 57 mm

Note: Actual battery life may vary with product settings, operating environment, and usage patterns.

Ordering Information

VST-897EX	Wireless Outdoor HD PIR Motion Sensor Camera with warm white fill light, with anti-masking
VST-897EX-HDR	Wireless Outdoor HD PIR Motion Sensor Camera with warm white fill light, with anti-masking and HDR
VST-897EX-IL	Wireless Outdoor HD PIR Motion Sensor Camera with a with infrared (IR) fill light, with anti-masking
VST-897EX-IL- HDR	Wireless Outdoor HD PIR Motion Sensor Camera with a with infrared (IR) fill light, with anti-masking and HDR
VST-897EX-Solar	Solar-Powered Wireless Outdoor HD PIR Motion Sensor Camera with warm white fill light, with anti-masking
VST-897EX-HDR-Solar	Solar-Powered Wireless Outdoor HD PIR Motion Sensor Camera with warm white fill light, with anti-masking and HDR
VST-897EX-IL-Solar	Solar-Powered Wireless Outdoor HD PIR Motion Sensor Camera with a with infrared (IR) fill light, with anti-masking
VST-897EX-IL- HDR-Solar	Solar-Powered Wireless Outdoor HD PIR Motion Sensor Camera with a with infrared (IR) fill light, with anti-masking and HDR