

Council Agenda Report

<b>From</b> :	Lieutenant Tim Murphy
Subject	Police Department fixed public safety camera system pilot program
Date:	October 18, 2016

#### Facts

- 1. The mission of the Paso Robles Police Department is to render the highest level of service, working side by side with the community to solve problems related to crime and social disorder, thereby ensuring safety and improving the quality of life here in our community.
- 2. Police departments nationwide have been successful in crime reduction efforts and criminal investigations using both public and private security video footage. An example of the effectiveness of public safety video used for investigative purposes is the Boston Marathon bombing investigation. Locally, the Grover Beach Police Department cites an approximate 80% reduction in calls for service in problem areas where fixed-cameras have been deployed.
- 3. Fixed-camera systems can deter as well as detect crime, assisting emergency services personnel maintain public order, manage emergency response situations during natural and manmade disasters, monitor pedestrian and vehicle traffic activity, assist in the preparation of traffic accident and criminal investigation reports, and assist in prosecuting and/or defending civil or administrative actions.
- 4. A fixed-camera system uses cameras that record images only, not sound, with cameras that can be placed in strategic public locations within the city at the direction of the Chief of Police. Individual camera locations can be noticed or covert. Brochures from two current vendors are included in Attachment 1.
- 5. Current fixed-camera systems are portable, allowing for deployment as needed in areas experiencing increased criminal activity or for monitoring of special events, such as events that occur during the year at locations throughout the city.
- 6. The pilot program will allow for the placement of 2-4 cameras in open public areas coupled with clear guidelines and management oversight of the angle of views and use of any captured images.
- 7. The proposed system would not look into private areas or areas where the reasonable expectation of privacy exists.
- 8. The proposed pilot system would be monitored around-the-clock by dispatchers, to capture video evidence for use in the prosecution of criminal suspects. In order to ensure that private areas adjacent to public areas are not monitored, the system can be configured manually via pixel manipulation, or simply aimed as needed to prevent this from occurring.
- 9. The placement of the proposed cameras would be based on ongoing needs assessments. Current statistics indicate that Pioneer Park is most in need of monitoring at this time, as a result of ongoing criminal conduct, including vandalism, graffiti, alcohol and drug violations, and disorderly conduct.

Although the Police Department has aggressively worked to resolve these issues, the nature and location of the crimes has made it difficult for officers to limit the activity. Officers do not have the available time and staffing to monitor the problem areas on a constant basis; by the time officers can respond to a 9-1-1 call, the perpetrators have normally left.

#### **Options**

- 1. Do nothing.
- 2. Authorize the Police Department to design a public safety camera system pilot program, returning to the Council for a contract with the preferred vendor.

#### **Analysis and Conclusions**

- 1. Doing nothing does not allow for the Police Department to maximize the use of technological assets as a tool for crime prevention, deterrence and criminal investigations, in order to leverage our personnel resources.
- 2. The proposed camera system can assist in creating a safer environment in the following ways:
  - a. Active surveillance systems that are monitored routinely on a real-time basis provide the advantage of being able to detect suspicious activity. Early detection can lead to crime prevention.
  - b. The mere presence of video surveillance cameras can act as a powerful crime deterrent. Individuals are less likely to commit a crime if they suspect that they are being monitored.
  - c. Evidence that has been obtained from video gathered from video surveillance cameras has proved invaluable in police investigations. The ability to review captured video images has aided many investigations by providing clear details of what actually took place.
  - d. Video surveillance assists in situational awareness, crowd management, locating missing children and/or adults and managing emergency responses to first aid, criminal conduct and other needs.
- 3. The proposed system can enhance the Police Department's relationship with the community in the following ways:
  - a. The mobility of the system allows for it to be one of the response mechanisms used by the Department to respond to community concerns throughout the city.
  - b. Such systems have successfully restored parks and public spaces in other cities for the enjoyment of law abiding citizens. This allows for community members to interact with police officers in those areas as the officers engage in community oriented policing efforts rather than only responding into those areas to address issues of crime and social disorder. This directly relates to the Department's 'Community Oriented Policing Philosophy' and the 'Police and Community Together' program.
- 4. If the City proceeds with the pilot, staff will evaluate the impact of the cameras during the pilot period, monitoring both effectiveness and unanticipated impacts.
- 5. Because the proposed system is scalable, the City can evolve the design and deployment of the system to suit the changing needs of our community. If the pilot proves successful, a system can be designed to meet the ongoing budgetary and staffing of the City, as well as the crime patterns of the community.

#### **Fiscal Impact**

The Police Department has \$61,000 in funding from the Board of State and Community Corrections (BSCC) grant fund available for the design, installation, operation, and evaluation of the pilot system; this will be more than sufficient for the pilot program. Ongoing operating costs of the pilot program would be less than \$1,000 in each outyear for power, data transfer, etc. The cameras would be under a multi-year warranty. Staffing costs would include moving the cameras, transferring useful video for permanent storage, etc.

#### Recommendation

Authorize the Police Department to design a public safety fixed-camera system pilot program, returning to the Council for approval of a design and contract with the preferred vendor.

#### Attachments

1. Brochures for selected current systems.

# **POD** Features

- ✓ Up to 4 Camera Views with 3 Pan-Tilt-Zoom Cameras & 1 Fixed on a single device
- ✓ 2TB of Storage in onboard Video Server so recording does not rely on wireless signal (upgradable to 6TB)
- ✓ Up to 45 days of video storage, in some cases 6 months depending on preferred settings (with 2TB)
- ✓ Central Monitoring Software, Web and Smartphone Viewing
- ✓ Infrastructure for Storage and Video Server at Station or Office is NOT needed
- Minimal Wireless System needed (if Cellular is not used) because recording is directly onboard
- ✓ No Per Camera or Per Computer Software Licensing Fees or Firmware/Software Upgrades Fees
- ✓ Easily moved from location to location since it only requires 110 power and is simple to install





Pan-Tilt-Zoom cameras, with 12x Optical Zoom Agenda liem No. 17 and 10x Digital for a total of 120x Zoom

## All-in-One System



With 4 Camera Views, the i4POD is the affordable camera solution for parks and public areas.

## Force Multiplier



Quick to Deploy and Needing Only 110 Power makes the i4POD versatile for monitoring fairs and special events.

#### Deterrent



The i4POD's flashing blue strobe light and 24/7 live view and recording makes it a valuable tool in protecting maintenance  $y_{\text{Parts}} = g_{\text{Part}} d$  jobsites.

# COMPLETE HD CAMERA SOLUTION



*Everything You Need For Under \$5000* 



# High Definition Portable Observation Device

# POD Models



#### i4-POD-P

3 -12x Pan-Tilt-Zoom Cameras 1- Stationary Camera **\$7495** 

i4-POD-S 3 - Stationary Camera 1-12x Pan-Tilt-Zoom Cameras \$6495



#### i4-POD-SIP

3 - Stationary Cameras 1-10x Pan-Tilt-Zoom Camera **\$7995** For Satellite Systems

#### i2-POD

1- Stationary Camera 1- 12x Pan-Tilt-Zoom Cameras **\$4995** 

# i2-POD-S & IP

#### i2-POD-IP

1-Stationary Camera 1-10x Pan-Tilt-Zoom Cameras **\$5995** For Satellite Systems



The i2IP and i4SIP PODs are IP based portable systems that can add smaller satellite camera PODs to connect and record back to it



#### Custom Milestone, Genetec, exaqVision & Other PODs Available

For those already using Milestone, we have the Milestone POD in the i4-POD-S model with the Milestone Husky onboard with 2TB storage and Axis IP cameras for **\$10,995**.

We can also customize a POD to work with other major IP camera management software systems and/or with preferred cameras or enclosures.

### Just a few of the organizations using our PODs....

Arroyo Grande Police Dept., CA Modesto Police Dept., CA City of San Luis Obispo, CA City of Santa Maria, CA Chico Police Dept., CA Gresham Police Dept., OR City of Grants Pass, OR Pima Co. Natural Resources, AZ Yuma Police Dept., AZ South Davis County, UT

City of West Jordan, UT Con Edison, NY Avista Utilities, WA Island County, WA City of Wenatchee, WA

## Frequently Asked Questions

# **Q**: How do I view and download video from the POD?

A: You can connect to the POD via cellular, wi-fi or wireless. View live video and move your pan-tilt-zoom cameras using the included software, Internet Explorer or smartphone app. Search, playback and download video remotely as well.

# **Q**: How much video or how many days of video can the POD store?

A: From 5 days up to a few months depending on how you configure each camera and how much activity there is in the area. You can choose recording speed, quality, motion sensitivity, motion fields, schedule, etc for each camera in which cases, some PODs have recorded up to 15 months. There is also the option of upgrading the standard 2TB hard drive to 6TB.

#### Q: Is it really portable/mobile?

A: The POD weighs just around 30lbs and comes with a custom mount that straps onto a pole. It only requires 110 power which you can get easily when it is mounted on a streetlight that has a photocell by using our photocell power adapter. It's so easy that many clients install and move their PODs themselves.

#### Q: How far can the pan-tilt-zoom camera go?

A: The pan-tilt-zoom cameras on our standard POD has 12x Optical Zoom and 10x Digital Zoom for a total of 120x. For example, license plates can be read from up to 2 blocks or 2 hundred yards away. *(See picture on POD Features panel on this brochure)* 



Contact Us Today For More Info or To Schedule a Demo Call 877-822-2303 ~ Email info@securitylines.us ~ Visit www.securitylines.us



# MultiSense<sup>tm</sup> Camera MC-60 Series Solar Wireless Cloud Camera

# Product Datasheet

#### Solar Powered Wireless Network Camera

The **MC-60 Series** is a solar powered wireless cloud camera system that can deploy in minutes to provide remote surveillance, video streaming, and timelapse imaging over cellular or WiFi. The **MC-60 Series** is a complete system solution including rugged, all-weather enclosure, batteries, and solar panel. The **MC-60 Series**, along with the MultiSense<sup>tm</sup> Cloud Service, enable you to be monitoring your site within minutes, no programming required.



#### **Key Features**

- 100% solar powered, 100% wireless surveillance + time-lapse
- · High resolution, color images up to 8MP
- Live video streaming (H.264, 720p)
- Digital Video Recorder (DVR) built-in up to 64GB
- Extremely simple installation, setup
- Event alerting (email or text) and logging
- Built-in cellular for operation anywhere
- Standard 802.11b/g/n WiFi works with standard access points
- Compact: small size and light weight; simple one-person install
- Complete battery/power/solar system. Nothing else to buy.
- MultiSense Cloud Service for web access from any PC or mobile



Construction Site Monitoring







Oil & Gas Security



# MultiSense<sup>tm</sup> Camera MC-60 Series

# Specifications | MC-60 Series

Camera / Video	
Image Sensor	CMOS
Resolution (still)	MC-60: 2880x1728 (5MP) to 1280x720 (0.9MP) MC-68: 3264x2448 (8MP) to 640x480 (0.3MP)
Resolution (video)	1280x720 (720p)
Video Compression	H.264
Video Streaming (via MultiSense Cloud Server)	multiple simultaneous H.264 streams
Field of View	MC-60: 54°(h) x 45°(v) MC-68: 60°(h) x 51°(v)
DVR	
Recording	up to 8MP stills @ 2 per minute or 720p H.264 video
Storage	MC-60: 32GB (internal) MC-68: 64GB (internal)
Deferred Upload (cellular)	Upload recorded data on de- mand to limit cellular data usage
Scheduler	Specify hours/day, days/ week for recording
Interfaces	
Cellular	3G/4G. Multiple carriers.
WiFi	IEEE 802.11 b/g/n
WiFi USB	IEEE 802.11 b/g/n USB Mini-AB for local configuration
WiFi USB GPS	IEEE 802.11 b/g/n USB Mini-AB for local configuration Built-in GPS positioning
WiFi USB GPS <b>Power</b>	IEEE 802.11 b/g/n USB Mini-AB for local configuration Built-in GPS positioning
WiFi USB GPS <b>Power</b> Solar Power Input	IEEE 802.11 b/g/n USB Mini-AB for local configuration Built-in GPS positioning 18-24VDC with Maximum Power Point Tracking (MPPT)
WiFi USB GPS <b>Power</b> Solar Power Input Solar Panel	IEEE 802.11 b/g/n USB Mini-AB for local configuration Built-in GPS positioning 18-24VDC with Maximum Power Point Tracking (MPPT) 25W Monocrystalline
WiFi USB GPS <b>Power</b> Solar Power Input Solar Panel USB Charging	IEEE 802.11 b/g/n USB Mini-AB for local configuration Built-in GPS positioning 18-24VDC with Maximum Power Point Tracking (MPPT) 25W Monocrystalline 5V/0.4A charging from USB configuration port
WiFi USB GPS <b>Power</b> Solar Power Input Solar Panel USB Charging Auxiliary Power Input	IEEE 802.11 b/g/n USB Mini-AB for local configuration Built-in GPS positioning 18-24VDC with Maximum Power Point Tracking (MPPT) 25W Monocrystalline 5V/0.4A charging from USB configuration port 18-24VDC, 25W max
WiFi USB GPS <b>Power</b> Solar Power Input Solar Panel USB Charging Auxiliary Power Input Battery (built-in)	IEEE 802.11 b/g/nUSB Mini-AB for local configurationBuilt-in GPS positioning18-24VDC with Maximum Power Point Tracking (MPPT)25W Monocrystalline5V/0.4A charging from USB configuration port18-24VDC, 25W maxLithium Iron Phosphate (LiFePO4) battery pack - provides > 3 days operation with no sun (typical)
WiFi USB GPS Power Solar Power Input Solar Panel USB Charging Auxiliary Power Input Battery (built-in) Cloud Video	IEEE 802.11 b/g/n USB Mini-AB for local configuration Built-in GPS positioning 18-24VDC with Maximum Power Point Tracking (MPPT) 25W Monocrystalline 5V/0.4A charging from USB configuration port 18-24VDC, 25W max Lithium Iron Phosphate (LiFePO₄) battery pack - provides > 3 days operation with no sun (typical)

Physical	
Camera Dimensions	10.75" (W) x 10.25" (D) x 5.0" (H)
Camera Weight	8 lbs.
Solar Panel Dimensions	13.5" (W) x 21.25" (D) x 1.0" (H)
Solar Panel Weight	5.5 Lbs.
Mounting	1/4-20 threaded insert for bracket/tripod mount
Locking	Loop for optional cable lock
Environmental	
Operating Temperature	MC-60: -10°C (14°F) to +45°C (113°F) (-20°C/-4°F for limited durations) MC-68: -20°C (-4°F) to +50°C (122°F)
Enclosure Material	Polycarbonate
Encapsulation	IP67, hermetically
	sealed
ORDERING	sealed
ORDERING MC-60-102	sealed MC-60 Camera Kit (Solar) ( <b>T-Mobile</b> ). Kit includes camera, solar panel, mounting brack- ets. <i>Requires Cloud</i> <i>Service for operation.</i>
ORDERING MC-60-102 MC-68A-102	MC-60 Camera Kit (Solar) ( <b>T-Mobile</b> ). Kit includes camera, solar panel, mounting brack- ets. <i>Requires Cloud</i> <i>Service for operation.</i> MC-68 Camera Kit (Solar) ( <b>ATT</b> ). Kit includes camera, solar panel, mounting brack- ets. <i>Requires Cloud</i> <i>Service for operation.</i>
ORDERING   MC-60-102   MC-68A-102   MC-68A-102	Sealed MC-60 Camera Kit (Solar) ( <b>T-Mobile</b> ). Kit includes camera, solar panel, mounting brack- ets. <i>Requires Cloud</i> <i>Service for operation.</i> MC-68 Camera Kit (Solar) ( <b>ATT</b> ). Kit includes camera, solar panel, mounting brack- ets. <i>Requires Cloud</i> <i>Service for operation.</i> MC-68 Camera Kit (Solar) ( <b>Verizon</b> ). Kit includes camera, solar panel, mounting brack- ets. <i>Requires Cloud</i> <i>Service for operation.</i>
ORDERING MC-60-102 MC-68A-102 MC-68A-102 Cloud Service	Sealed MC-60 Camera Kit (Solar) ( <b>T-Mobile</b> ). Kit includes camera, solar panel, mounting brack- ets. <i>Requires Cloud</i> <i>Service for operation.</i> MC-68 Camera Kit (Solar) ( <b>ATT</b> ). Kit includes camera, solar panel, mounting brack- ets. <i>Requires Cloud</i> <i>Service for operation.</i> MC-68 Camera Kit (Solar) ( <b>Verizon</b> ). Kit includes camera, solar panel, mounting brack- ets. <i>Requires Cloud</i> <i>Service for operation.</i> Mobile and WiFi plans available

# Specifications subject to change without notice

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