

Trilogy Security and Preparedness Committee (TSPC)

License Plate Reader (LPR) Camera Assessment

2/15/20

This effort was undertaken by the TSPC in March 2019 in response to resident requests and was focused on assessment of operational usage, technical performance and cost factors only. Vigilant Solutions, Flock Safety, Perimeter Security Solutions and Security Lines US were evaluated by the committee. The two primary vendors were Vigilant Solutions and Flock Safety.

Operational Usage Assessment

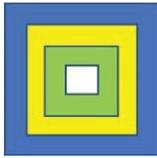
All LPR vendor systems are accessed and controlled via internet applications and require varying levels of training for effective use. Artificial Intelligence (AI) features are integrated into the software to provide ease of use. Data capture occurs automatically day or night and, depending on the equipment, may be able to capture not only vehicle plates but other moving objects such as bicycles, golf carts or even pedestrians. Some vendor applications were more user friendly than others. Vigilant Solutions and Security Lines US have established law enforcement usage and data control protocols. SLO county Sheriff's office is familiar with these companies. Flock Safety usage and data control rests with the HOA. Residents may "opt-out" so that any data related to their vehicles is not captured.

Technical Performance Assessment

Flock Safety cameras use solar panels with battery backup while Vigilant and Perimeter Security require 110 volt AC power for camera operation. Security Lines can be configured to operate on either AC power or solar panels. Technical support for installation of cameras is provided by the companies but Vigilant Solutions and Security Lines US require the HOA to be responsible for the actual installation effort. Flock Safety and Perimeter Security Solutions provide installation support as part of their service. All vendors had similar video capture capabilities, but higher speed vehicle video capture required more expensive camera systems. This might be a factor at the Mesa Rd entrance. Testing is advisable to determine if/where cameras capable of capturing vehicles at higher speeds are necessary. The standard camera site configuration includes 2 cameras to cover both directions of travel, but the committee advises further evaluation to determine if/where one camera might be enough. Flock Safety previously agreed at the committee's request to provide their equipment at no cost for a 30-day pilot program, but the committee was informed by the WMA board that it did not have the capacity at the time to consider the program.

Cost Assessment

Some vendors such as Vigilant Solutions require the HOA to purchase all the equipment as well as a maintenance and repair contract, while other vendors such as Flock Safety offer an annual lease of equipment which includes maintenance and repair. The cost assessment below is for the two primary vendors and gives the standard (2 cameras/site) system configuration and a custom (1 camera/site) system configuration. The number of camera sites (8) was selected to allow coverage of all road entry and exit points to the Monarch Dunes community.



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Vigilant Solutions cost breakdown (2cameras/site):

One time site assessment and camera commissioning for each camera site ($\$850 \times 8$) = $\$6,800$ ¹

Equipment purchase assuming 2 cameras/site x 8 sites ($\$3,500 \times 8$) = $\$28,000$ ²

Annual maintenance service for all camera sites installed beginning in second year = $\$2,000/\text{yr}$ ³

Vigilant Solutions cost breakdown (1 camera/site):

One time site assessment and camera commissioning for each camera site ($\$850 \times 8$) = $\$6,800$ ¹

Equipment purchase assuming 1 camera/site x 8 sites ($\$1,750 \times 8$) = $\$14,000$ ²

Annual maintenance service for all camera sites installed beginning in second year = $\$2,000/\text{yr}$ ³

¹Doesn't include actual installation of equipment which must be done by HOA

²Assumes maximum vehicle speed is within standard camera operating limits

³Doesn't cover willful damage

Flock Safety cost break down (2 cameras/site):

One time site assessment and camera commissioning for each camera site ($\$500 \times 8$) = $\$4,000$ ⁴

Annual equipment lease and support assuming 2 cameras/site ($\$4,000 \times 8$) = $\$32,000/\text{yr}$ ^{5,6}

Flock Safety cost break down (1 camera/site):

One time site assessment and camera commissioning for each camera site ($\$500 \times 8$) = $\$4,000$ ⁴

Annual equipment lease and support assuming 1 camera/site ($\$2,000 \times 8$) = $\$16,000/\text{yr}$ ^{5,6}

⁴Includes actual installation of equipment by Flock Safety

⁵Assumes maximum vehicle speed is within standard camera operating limits

⁶Covers all support, maintenance and damage

Summary

The committee is documenting this assessment for informational purposes only and makes no recommendation on the use of LPR cameras within Monarch Dunes. The committee does not intend to devote further resources investigating LPR cameras unless the WMA board instructs the committee to do so.