

**Anthem Country Club Community Association
Gates, Property and Patrol Committee
Traffic Enforcement Fact Sheet**

Sunstates Security has been contracted by the Anthem Country Club Community Association to conduct data collection and speed enforcement patrols within the community. The sole purpose of the data collection and speed enforcement is to maintain the safety of the community. The ACCCA has two types of equipment that is used for those purposes. One is for speed and traffic data information collection. The other is for speed enforcement. They are detailed below.

The following are the speed and traffic volume data collecting equipment. This equipment is not designed or used to issue traffic speeding tickets. All three devices help address traffic issues by collecting traffic and speed data to be used solely for the purpose of providing information in order to better keep the residents, their families and guests safe.

1. **Jamar Radar Unit:** It is placed in various areas in the community and captures accurate, unbiased speed and traffic data, allowing the ACCCA to best determine when and where enforcement efforts are needed.
2. **Trafficalm IQ1200 speed display signs:** This equipment is placed in various areas in the community and captures accurate, unbiased speed and traffic data, allowing the ACCCA to best determine when and where enforcement efforts are needed.
3. **Portable Traffic Speed Trailer:** This equipment is placed in various areas in the community and captures accurate, unbiased speed and traffic data, allowing the ACCCA to best determine when and where enforcement efforts are needed. This piece of equipment also flashes the speed of the oncoming vehicle to alert the driver of their speed. It is intended to inform drivers if they are going too fast and to slow down or if they are within the posted speed limit.

The following is the Lidar speed enforcement equipment used by Sunstates Security staff.

1. **The Laser Technology, Inc. LTI 20/20 TruCam with Tru-Flash Night Lidar speed enforcement.** It captures an image of the vehicle and license plate. It also logs the time, date, location, distance, traveling direction. All of this data is encrypted and recorded in a proprietary file type that can be read only with the correct software.

How are the locations of the Lidar unit Speed enforcement locations selected?

The locations are based on resident complaints, observed speeding and high traffic locations, JAMAR, traffic trailer and IQ1200 units collected data. Sunstates Security is also deployed at stop sign locations within the community to ensure vehicle traffic is abiding by posted traffic control signage.

What is a LIDAR device?

LIDAR: a device that is similar in operation to radar but emits pulsed laser light instead of microwaves to measure speed and distance.

How the LASER is used to measure distance and speed:

“The generated light energy has a wavelength of approximately 900 nanometers, with a beam divergence of 3 milliradians - equal to a beam width of roughly 0.3 m at 100 m or likewise, 3 ft at 1000

ft... Speed is measured by directing a LASER pulse at the target every 0.33 seconds. Any solid object will reflect back a certain percentage of the emitted light energy. This only needs to be a small percentage for the sensitive detector to pick it up. It measures the time it takes a laser pulse to travel to the target and back with a precision, crystal- controlled time base....”

The TruCam 20/20 device provides unequivocal identification of the vehicle responsible for the speed recorded through the use of an integrated video recorder built in and calibrated to track with the target point of the Laser measuring the speed, as designated by the crosshairs within the device. The responsible vehicle's speed and direction of travel is recorded with respect to the LIDAR unit recording the speed and video of the violation capture.

Does the Lidar equipment need to be periodically calibrated?

The LIDAR unit is self-calibrating and self-tests every time the unit is powered. If the unit detects any faults that would impact peak performance the unit will shut down and prevent use of the device.

How often are the logs of Lidar unit transmitted to the ACCCA staff?

Traffic enforcement violation occurrences are completed upon daily use of each unit and are then submitted to ACCCA staff for processing.