



Statement of Technology: REDFLEXspeed 3500M System

The REDFLEXspeed 3500M System measures the speed of each vehicle that passes through a RADAR beam, and triggers an image, should the vehicle be traveling equal to or greater than the threshold speed set in the system.

The camera system records:

- Face and Plate still images
- Scene video
- A data bar which includes location, description, speed limit, vehicle speed, RADAR direction date and time. The camera system imprints this data at the top of all full size still images.

The REDFLEXspeed 3500M System consists of industrial still image cameras, video cameras and ATR RADAR antenna(s). The RADAR beam is oriented at 22 degrees relative to the direction of travel as shown in the figures below. This Across-the-road (ATR) RADAR antenna can measure the speed of approaching or receding traffic (depending on deployment requirements).

The system's cameras are connected to the RADAR sensor, which is constantly active. The vehicle speed is determined by the RADAR hardware and communicated to the system. When the system detects a speed violation, the cameras capture face, plate and video images of the offending vehicle(s), resulting in an incident file.

The system uses encryption and a proprietary format to safeguard the evidence images against alteration. The system gives each incident file and its data a unique signature to confirm its authenticity. Public key cryptography and additional encryption processes secure the transmission process.

