

Radar

The Dodge County Sheriff's Department utilizes 2 types of radar. The first, and most traditional is the radar gun that bounces a signal off an object and calculates the speed based on the time it takes the signal to return to the radar unit. A **Radar Gun** is used to send out radio waves of specific frequencies in a chosen direction. The traveling waves then bounce off objects, including vehicles, and return to the radar gun 's receiving station. When the waves reflect off a moving vehicle, a measurable frequency shift, called Doppler Shift, occurs. The radar gun computer then uses the frequency shift to calculate the speed of the moving vehicle.

Second is the Lidar, also known as Laser Radar , LIDAR - Acronym for Light Detection And Ranging. With a Lidar device, one can measure speed and distance of a remote target, such as a vehicle, utilizing a concentrated beam of light directed at the target.