

The University of Illinois will conduct speed studies for the Illinois Department of Transportation to determine the speed reduction effects of certain signs and traffic control policies in highway construction zones. The University will use commercially available radar guns for speed measurements, however, these radar guns are detected by the radar detectors that some vehicle have. The detection introduces a bias in speed measurements that prevents us from accurately measuring the speed reductions effects. The university requests that FCC allows the radar guns be detuned to avoid the detections be radar detectors. The speed measurements are for research purpose and will not be used for law enforcement.

Information about the radar guns are listed below.

Manufacturer: Decatur Electronics, Inc
FCC ID: HTRCR-1KD
FREQUENCY: 24.150 GHz +\ - 50MHz
BEAM WIDTH: 12 DEGREES

Technical specifications for SI-2 antenna

Antenna	K-band
Frequency	24.15GHz +\ - 50 MHz
Power output	10mW nominal
Output power density	0.5mW/cm ²
Beam width	12 degrees
Detection range	1500ft
Supply voltage	10.8 VDC-24 VDC
Current draw	+12 V (0.250mA)- 24 V (0.120mA)