



Specifications

Microwave Transceiver

 Type Integrated transmitter and receiver with dual 4 patch antenna

 Operating frequency 24GHz (K-Band) Single balanced mixer 50MHz bandwidth

• EIRP output power 15dBm · Beam aperture 80/34 • 16bit radar data acquisition System

Software

Graphically configurable frequency and peak detection

• Time domain display(scope) with trigger and filter functions

· Real time capture and display of signal at background along with current acquired signal

 Speed display : Display in km/Hr, m/s, KHz

20mV/div ~ 3V/div Volts/div Display Peak to peak level display

· Time Base 0.5mS/div ~ 10ms/div(real time)

• Trigger Manual

• Storage mode Streaming to standard save files Real time with cursor measurement

• FFT Power spectrum display from 5Hz ~ 20 KHz

Experiments

- Introduction to Doppler Radar
- Study of Doppler Shift and How it is being used in various applications
- To find out the time period and frequency of pendulum
- To measure the speed of fan in RPM
- To measure the frequency of peizo electric buzzer
- To find out the accuracy of the radar using tuning fork
- To detect the transformer HUM and its frequency

Note: Specifications are subject to change.

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