

Appendix 7. Operational Description

DNS-010 is an X-Band sensor module which is designed for motion sensing applications, and which utilizes the doppler phenomenon.

The basic principle of operation consists of detecting the frequency shift between a transmitted and received signal reflected back from a moving object within the field of view of the unit.

This module consists of DRO(Dielectric Resonator Oscillator), balanced Schotkey Barrier Diode mixer and Micro-strip Patch Antenna.

