

## Theoretical and practical characterization of a broadband random noise radar

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A broadband noise radar that works with thermal noise is presented. The echo detection is based on the correlation between the transmitted signal and the received reflection. The system operates in the frequency range between 10.7 GHz and 12 GHz with a bandwidth of 1.3 GHz and an RF power level of -26 dBm. Practical measurements are presented for moving and stationary targets.

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