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November/December 2017

About the Cover

Stefan Scholl, DC9ST, describes a direct sampling Panoradio software defined receiver that captures up to 100 MHz bandwidth at once and provides an extra-wide panorama view seamlessly from dc to VHF. The Panoradio has a second band pass filtered front end to enable undersampling reception of the 70 centimeter band.



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Features

- **Perspectives** Kazimierz "Kai" Siwiak, KE4PT
- RF Exposure Safety Compliance for Three Multiband Inverted L Antennas Peter DeNeef, AE7PD
- **Observations of Sinusoidal Variations in Signal Strength of Digital Mode Transmissions and their Causes**

Raymond F. Gurney, KDØFYF

- **Using Direct-Current Relays at Lower-Coil Voltages** Joseph M. Haas, KEØFF
- The Panoradio: A Modern Software Defined Radio with **Direct Sampling** Stefan Scholl, DC9ST
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