"Band Scanner Pro" is a tool to evaluate FM broadcast band congestion and to log station identification parameters. The "Band Scanner Pro" can measure RF level, MPX deviation, Left & Right Audio levels, RDS and Pilot injection levels. The system is powered by the USB port of any Windows PC. Supplied free of charge Windows software sweeps the receiver across the FM band, logging every carrier and generating a spectrum display of carrier level vs. frequency. It then analyzes each carrier and creates a station list. Stations with an RDS presence are further refined to show all the radio data groups being transmitted. Its interface is like a portable radio: It may be tuned manually through the receiver screen or by double-clicking a point on the spectrum plot or an entry on the station list. Spectrum plots may be saved as jpg or bmp files. The RDS data error level is graphed in a separate window on the receiver screen. The program can be monitored with headphones plugged into a standard 1/8" jack.

Originally, the Radio Data System developed for use in the U.S. was called the Radio Broadcast Data System, or "RBDS," to differentiate it from the European RDS standard. Differences between the two systems were gradually reconciled, and the term "RDS" can be legitimately applied to the system as practiced worldwide.

**FEATURES:**

- FM Band Spectrum analyzer
- Built-in Stereo decoder
- MPX, PILOT & RDS deviation meters
- External composite MPX and RDS input
- LEFT and RIGHT level meters
- Auto search tuning
- Headphones audio output
- Full feature RDS and RBDS decoder
- RDS/RBDS Groups Detector & Analyzer
- RDS/RBDS stream BER meter
- RDS/RBDS Data Logger
- Pocket size USB powered box
- View playlists of the competitive stations
- Saving and exporting the playlists to CSV file
- Compare the signal strength to competitors
- Tracking all the histories saved in the RDS Data Log
SPECIFICATIONS:

**FM receiver**
- FM frequency: 87.0 - 108.0 MHz
- RF level evaluation: ±4dB from 20°C to 30°C; 20-60dBµV without modulation
- Dynamic range: 0 to 54.6(60 with int. AttdBµV
- Attenuator: 6dB built-in, manual operation
- Stereo separation: >20dB
- Typical separation: Approximately 26dB to 35dB
- Measurement validity: RF level preferably ≥ 50dB

**FM Multiplex input**
- Connector: BNC, Impedance = 50 kΩ
- Max input level: 5000mV p-p

**User interface**
- Indicators: 3 LEDs
- Headphone output: 1/8" (3.5mm) phone jack

**Operating Conditions**
- Temperature: 10° and 40°C
- EMC immunity: 6V/m

**Power Requirement**
- Power supply: USB powered
- Connector: B-type, front panel

**Size and Weight**
- Dimensions (WxHxD): 2.9" x 1" x 4.3"
- Weight: 2 lbs

**FM Modulation Analyzer**
- Frequency accuracy: ± 5KHz, ± 2KHz typ
- Accuracy of audio: ± 5%
- Accuracy of sub-carrier: ±10% typ. not guaranteed

**FM Antenna input**
- Connector: 'F' on rear panel
- Impedance: 75Ω

**FM Multiplex input**
- Connector: BNC, Impedance = 50 kΩ
- Max input level: 5000mV p-p

**User interface**
- Indicators: 3 LEDs
- Headphone output: 1/8" (3.5mm) phone jack

**Operating Conditions**
- Temperature: 10° and 40°C
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