

### **Band Scanner Pro**

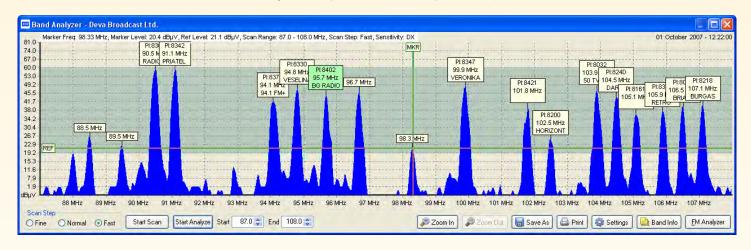
**USB FM-Scanning Receiver, Modulation and RDS Analyzer** 

# FM BAND SPECTRUM AND MODULATION ANALYZER RDS/RBDS DECODER-READER



"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 doubleclicking 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
- LEFT and RIGHT level meters
- Auto search tuning
- Headphones audio output
- RDS/RBDS Groups Detector & Analyzer
- RDS/RBDS stream BER meter
- RDS/RBDS Data Logger

- Pocket size USB powered box
- Full feature RDS and RBDS decoder
- External composite MPX and RDS input
- 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
- TCP/IP Remote management and control via Internet
- Remote audio listening and logging via Internet



P.O.Box 353, 8000 Bourgas, Bulgaria Phone: +359 56 820027, Fax: +359 56 836700 www.devabroadcast.com, info@devabroadcast.com



# **Band Scanner Pro**

**USB FM-Scanning Receiver, Modulation and RDS Analyzer** 

#### SPECIFICATIONS:

FM receiver

Dynamic

Attenuator

FM frequency 87.0 - 108.0 MHz **AGC** 

Strong fields

± 4dB from 20°C to 30°C; RF level evaluation 20-60dBuV without modulation

0 to 54.6(60 with int. Att)dBµV 6dB built-in, manual operation

>20dB

Stereo separation Approximately 26dB to 35dB Typical separation RF level preferably > 50dB Measurement validity Multiplex level 1000 samples over 1 second Audio level 1000 samples over 1 second Pilot level 1000 samples over 1 second **RDS** level 1000 samples over 1 second

Accuracy of MPX ± 5KHz, ± 2KHz typ

Accuracy of audio ± 5%

Accuracy of sub-carrier ±10% typ. not guaranteed

**FM Antenna input** 

Connector 'F' on rear panel 75Ú

Impedance

**FM Multiplex input** 

BNC. Impedance = 50 kÙ Connector

Max input level 5000mV p-p

**User interface** 

Indicators 3 LFDs

Headphone output 1/8" (3.5mm) phone jack

**Operating Conditions** 

Temperature 10° and 40°C

**EMC** immunity 6V/m

**Power Requirement** 

**USB** powered Power supply

Connector B-type, front panel

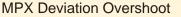
Size and Weight

2.9" x 1" x 4.3" Dimensions (WxHxD)

Weight

#### FM Modulation Analyzer FM Graph el RDS Level LEFT / RIGHT Le MPX: 63 KHz RDS: 5.5 KHz PILOT: 8.3 KHz LEFT: -6.7 dB RF LEVEL: 45,4 dBpV -6.0 dB □ 18.0 KHz 12.0 KHz 60.0 dBuV 120.0 KHz 11.0 KHz -7.0 KHz -nnas nn æ 110.0 KHz 10.0 KHz -50.0 dBsV 100.0 KHz -50ds -5.0 dE -60KHz 9.0 KHz -90.0 KHz 8.0 KHz 40.0 dBsV -60.0 KHz -7.0 KHz -15.0 dB 70.0 KHz -15.0 dB -4.0 KHz 6.0 KHz 30.0 dBu/ 60 0 KHz -20.0 dE -5.0 KHz -50.0 KHz -3.0 KHz -4.0 KHz 20.0 dBpV -3.0 KHz -2.0 KHz 30.0 KHz - 30.0 dB -30.0 dB -2.0 KHz 10.0 dBuV -1.0 KHz -1.0 KHz -10.0 KHz 0.0 KHz 0.0 KHz 0.0 KHz -40.0 dB 40.0 dB 0.0 dBpV 99.9 MHz, RF Level 44.4 dBpA

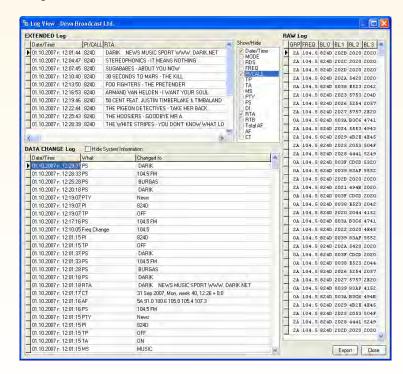
Sensitivity: DX Measure Time: 80:03:44



푸

Clear









P.O.Box 353, 8000 Bourgas, Bulgaria Phone: +359 56 820027, Fax: +359 56 836700 http://www.devabroadcast.com E-mail: info@devabroadcast.com