

# Band Scanner

USB FM-Scanning Receiver and RDS Analyzer

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

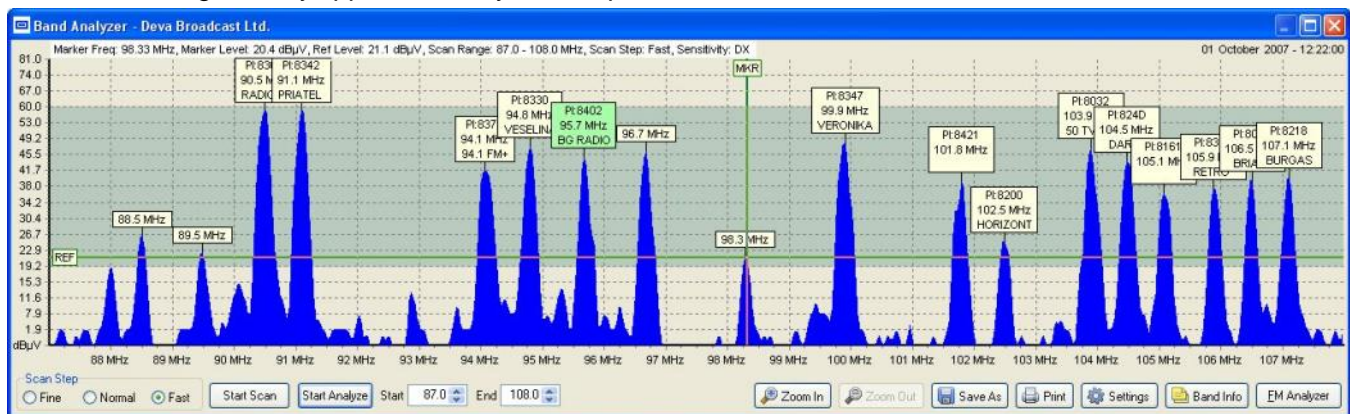


The "Band Scanner" is a simple, cost effective scanning receiver for FM market analysis. This is a market-monitoring tool intended for station engineers, managers and program directors. The "Band Scanner" creates detailed play list reports for any station that broadcasts artist and song title information with Radio Text.

Managers and program directors can compare their own RDS text rotations to other stations in the market. In addition, engineers are able to monitor real-time field intensity data for any station, as well as review strip charts for analysis of the entire band. Precision MPX peak deviation meter is included.

"Band Scanner" plugs into the USB port of any PC and with the supplied Windows® software, it sweeps the FM band and logs every signal it comes across. An easy-to-read spectrum display shows carrier level vs. frequency, and stations with an RDS or RBDS presence can be analyzed to show data in all Radio Data groups. Powered by a laptop USB connection, the "Band Scanner" becomes an easy-to-use field tool. The Band Scanner also allows broadcast engineers to decode and analyze all the RDS features with maximum ease and minimum expense.

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
- Auto search tuning
- Headphones audio output
- RDS/RBDS Groups Detector
- RDS/RBDS Groups Analyzer
- RDS/RBDS stream BER meter
- RDS/RBDS Data Logger
- Pocket size USB powered box.

- MPX deviation & MPX Power meter
- 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

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## SPECIFICATIONS:

### TUNNING RANGE:

87.0 – 108.0MHz selectable in 100kHz or 200kHz steps; 5 Station Presets.

### RF ANTENNA INPUT:

75-ohm, 'F' connector.

### STEREO PROGRAM OUTPUT:

3/8" (3.5mm) phone jack monitors the stereo program

### BASEBAND INPUT:

A BNC composite/MPX and RDS input to the decoder accepts levels of 1Vp-p. Input impedance >5k.

### SENSITIVITY: DYNAMIC:

>3  $\mu$ V. typical 84 dB $\mu$ V.

### STEREO DECODER:

Guaranteed cross-talk >25dB at 1 kHz

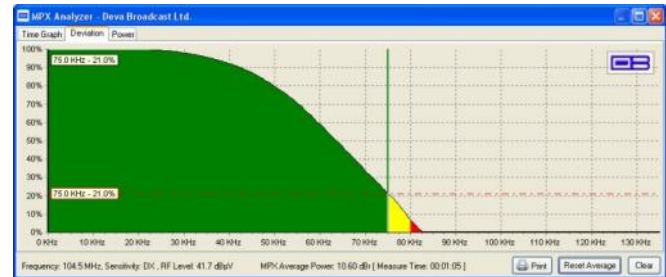
### RDS/RBDS DATA DECODING:

European RDS CENELEC and United States RBDS NRSC compatible.

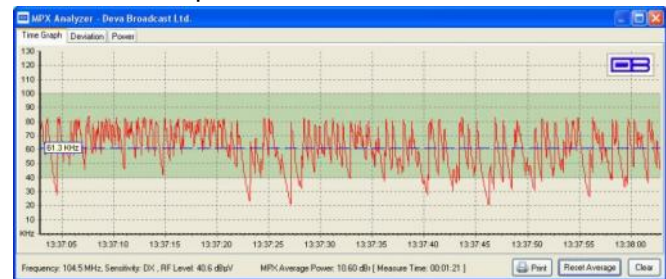
### SIZE AND SHIPPING WEIGHT:

2"H x 8"W x 5"D; 2.2 lbs.

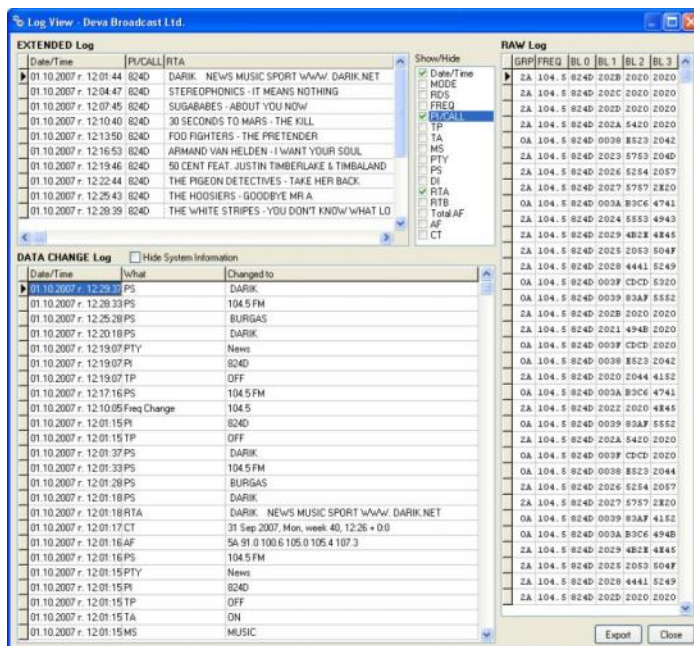
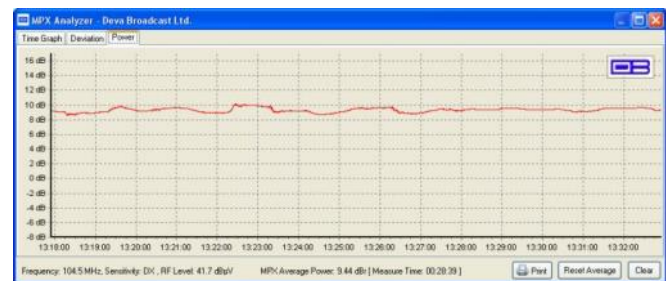
### MPX Deviation Overshoot



### MPX Time Graph



### MPX Power



No	ID	Freq	Mode	Level	PI	PS	AF List
1	90	90.5 MHz	Stereo	57.0 dB $\mu$ V	8362	NISSAN	1A, 103.9
2	109	91.1 MHz	Stereo	57.0 dB $\mu$ V	8342	BURGAS	5A, 91.1, 105.4, 96.4, 89.3, 1...
3	198	94.1 MHz	Stereo	59.6 dB $\mu$ V	8371	800 42N	7B, 94.1, 94.1, 94.6, 94.1, 94...
4	218	94.8 MHz	Stereo	49.0 dB $\mu$ V	8330	VESELINA	7A, 94.8, 91.2, 97.7, 91.4, 95...
5	253	96.0 MHz	Mono	36.6 dB $\mu$ V			Not Transmitted or Unknown
6	273	96.7 MHz	Stereo	37.5 dB $\mu$ V			Not Transmitted or Unknown
7	366	99.9 MHz	Stereo	43.8 dB $\mu$ V	8347	VERO	Not Transmitted or Unknown
8	421	101.8 MHz	Stereo	40.0 dB $\mu$ V	8421	N-JOY	Not Transmitted or Unknown
9	490	103.9 MHz	Stereo	47.1 dB $\mu$ V	8032	0 TV-OHA	1A, 103.9
10	497	104.5 MHz	Stereo	59.2 dB $\mu$ V	8240	DARIK	5A, 91.0, 100.6, 105.0, 105.4...
11	516	105.1 MHz	Stereo	39.9 dB $\mu$ V	8161	Z-RO	Not Transmitted or Unknown
12	557	106.5 MHz	Stereo	37.7 dB $\mu$ V	8041	YUZEN	Not Transmitted or Unknown
13	574	107.1 MHz	Stereo	40.0 dB $\mu$ V	8218	BURGAS	3A, 105.7, 89.7, 105.6

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