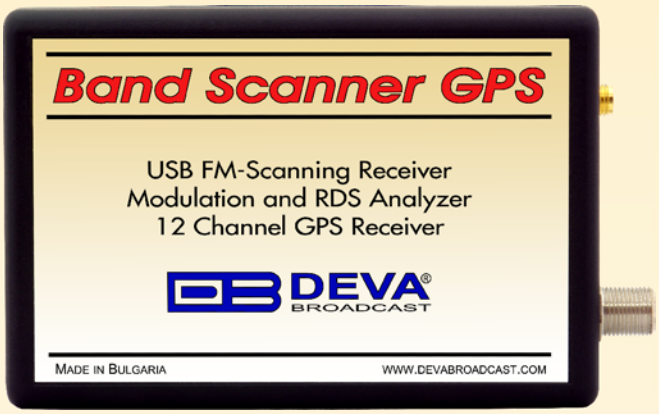
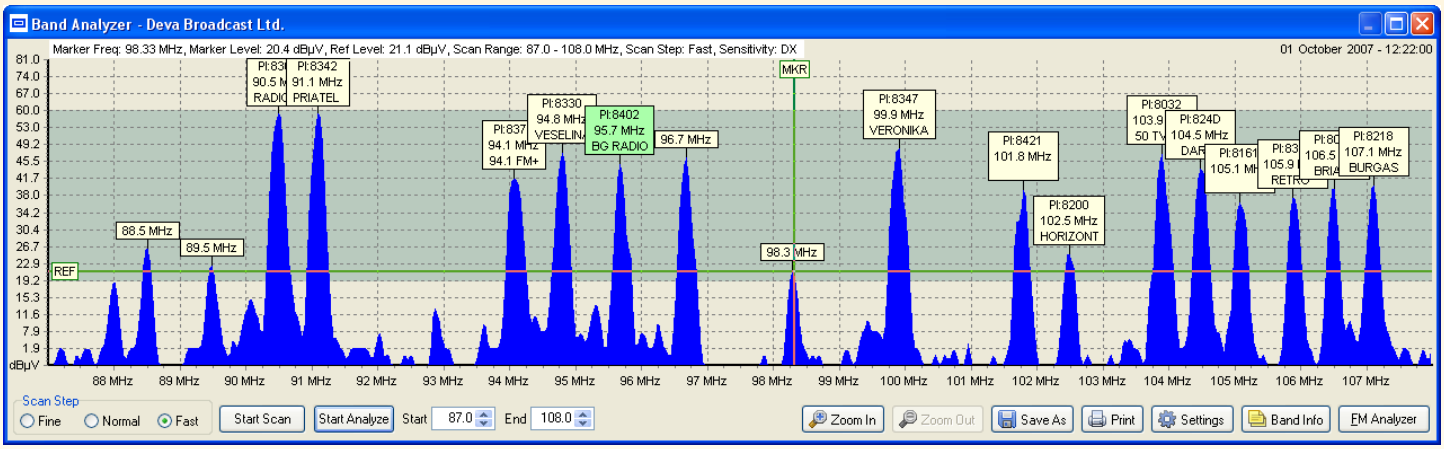
Band Scanner GPS

USB FM-Scanning Receiver, Modulation and RDS Analyzer

FM BAND SPECTRUM AND MODULATION ANALYZER
RDS/RBDS DECODER-READER WITH BUILT-IN GPS RECEIVER



"Band Scanner GPS" is a tool to evaluate FM broadcast band congestion and to log station identification parameters. "Band Scanner GPS" is a Google Earth compatible tool for visualization of collected FM Radio measurements. When running any campaign with the "Band Scanner GPS", results will be saved in a Log file. "Band Scanner GPS" can then convert this file into KMZ format an view the results in Google Earth. The Log file can be exported also as transitional format for future analyze or to keep it in record. The "Band Scanner GPS" 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.



FEATURES:

- **FM Band Spectrum analyzer**
- **Built-in Stereo decoder**
- **MPX, PILOT & RDS deviation meters**
- **LEFT and RIGHT level meters**
- **Built-in 12-channels GPS Receiver**
- **Visualisation in Google Earth**
- **Auto search tuning**
- **Headphones audio output**
- **FM / RDS / RBDS Data Logger**
- **RDS/RBDS Groups Detector & Analyzer**
- **RDS/RBDS stream BER meter**
- **Pocket size USB powered box**
- **Full feature RDS and RBDS decoder**
- **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**

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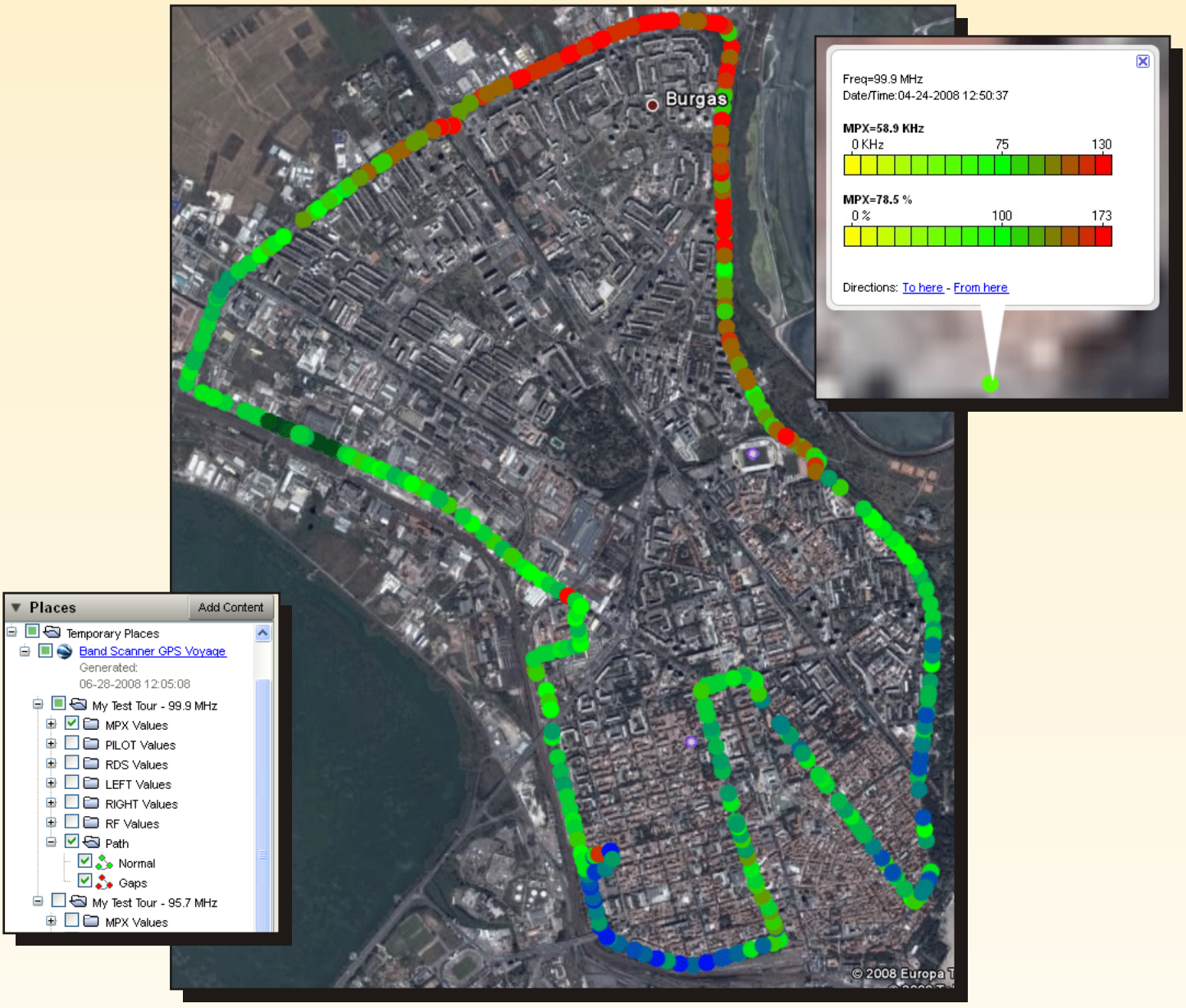

Google Earth is a geographic browser - a powerful tool for viewing, creating and sharing interactive files containing highly visual location-specific information. You can open KMZ files, generated by “Band Scanner GPS” in Google Earth. My Places folder contains a number of points of interest already marked on the earth for you to explore. To view them, expand the folder and go through the entries. You can view tracks that occurred within a specific time period and visually follow these tracks. As with other documents, you can create links or references to KMZ files for easy access. If your KMZ file is stored on a network or the Web, you can access it from any computer anywhere in the same way you would open a saved KMZ file on your local computer.

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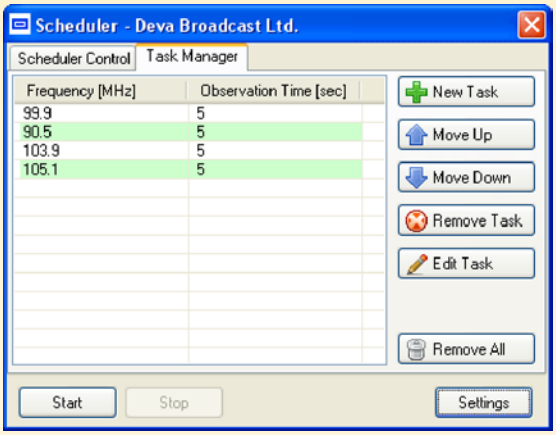
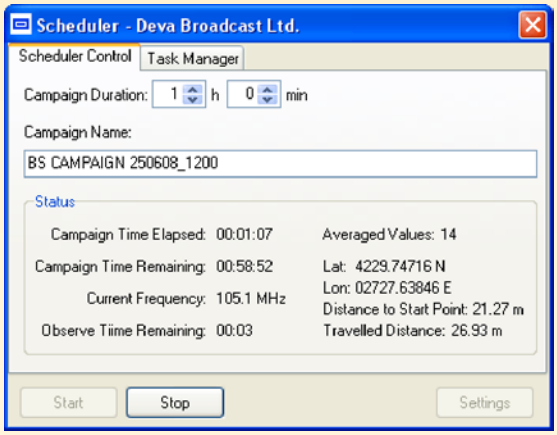
Collecting FM Data Has Never Been Easier!

1 Add the Stations

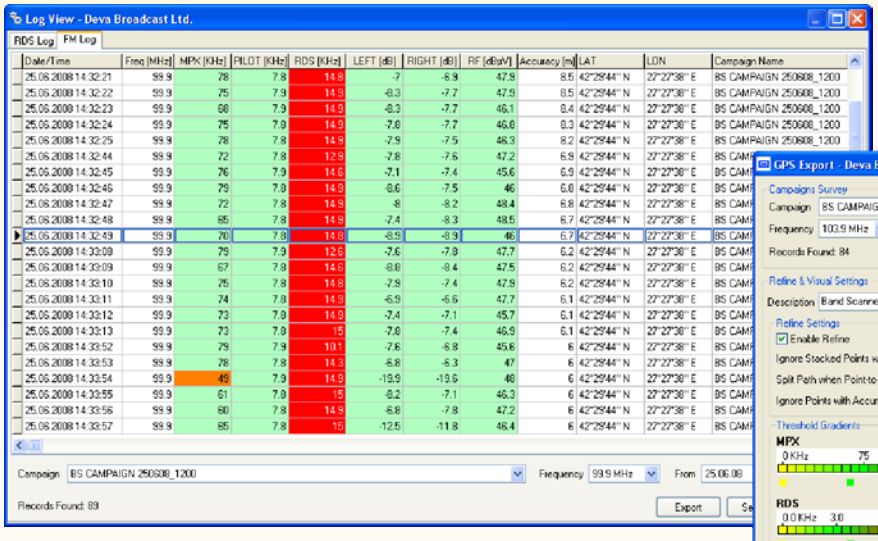


2 Start Schedule

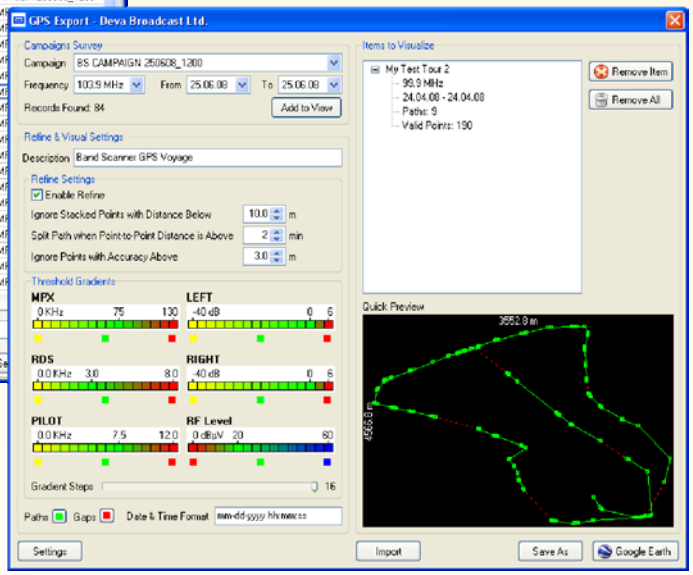


3 Go Driving Around

4 View the Data Collected



5 Show or Share the Results



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SPECIFICATIONS:

FM receiver

FM frequency	87.0 - 108.0 MHz
Strong fields	AGC
RF level evaluation	± 4dB from 20°C to 30°C; 20-60dBµV without modulation
Dynamic	0 to 54.6(60 with int. Att)dBµV
Attenuator	6dB built-in, manual operation
Stereo separation	>20dB
Typical separation	Approximately 26dB to 35dB
Measurement validity	RF level preferably > 50dB
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
Impedance	75Ω

GPS receiver

Number of channels	12
Antenna	Pre-amplified, magnetic
Connector	SMA, rear panel

User interface

Indicators	4 LEDs
Headphone output	1/8" (3.5mm) phone jack

Operating Conditions

Temperature	10° and 40°C
EMC immunity	6V/m

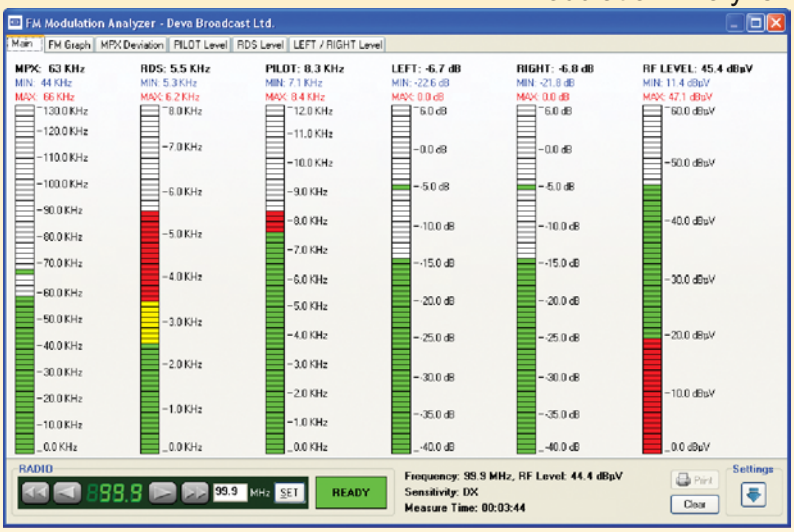
Power Requirement

Power supply	USB powered
Connector	B-type, front panel

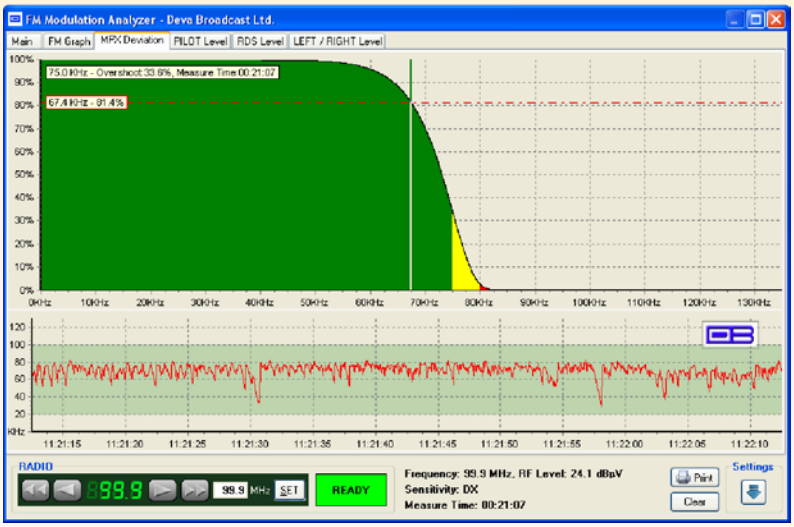
Size and Weight

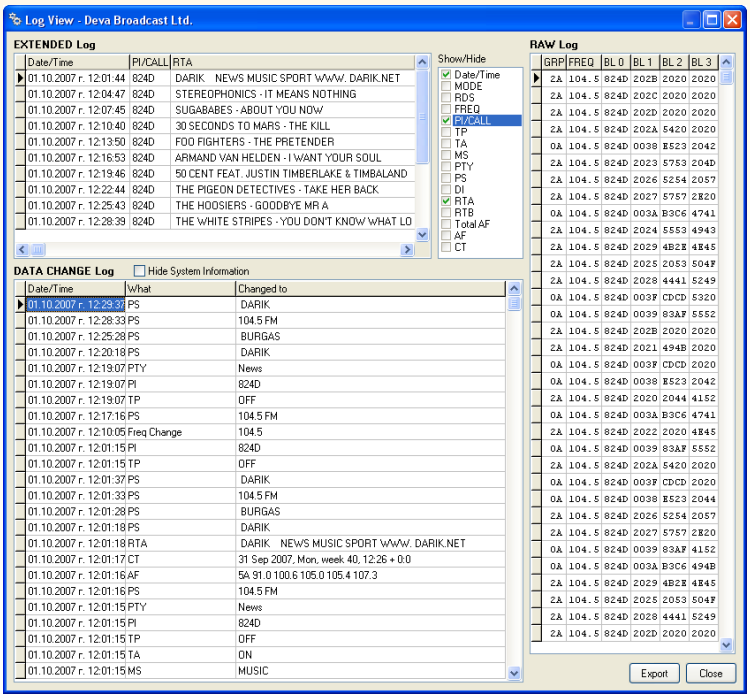
Dimensions (WxHxD)	2.9" x 1" x 4.3"
Weight	2 lbs

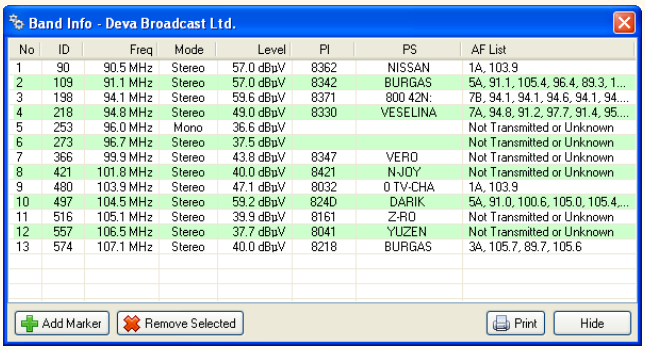
FM Modulation Analyzer



MPX Deviation Overshoot







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