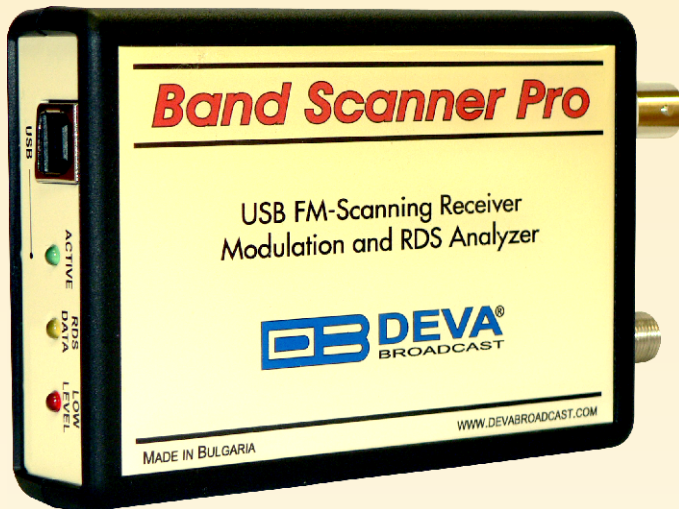
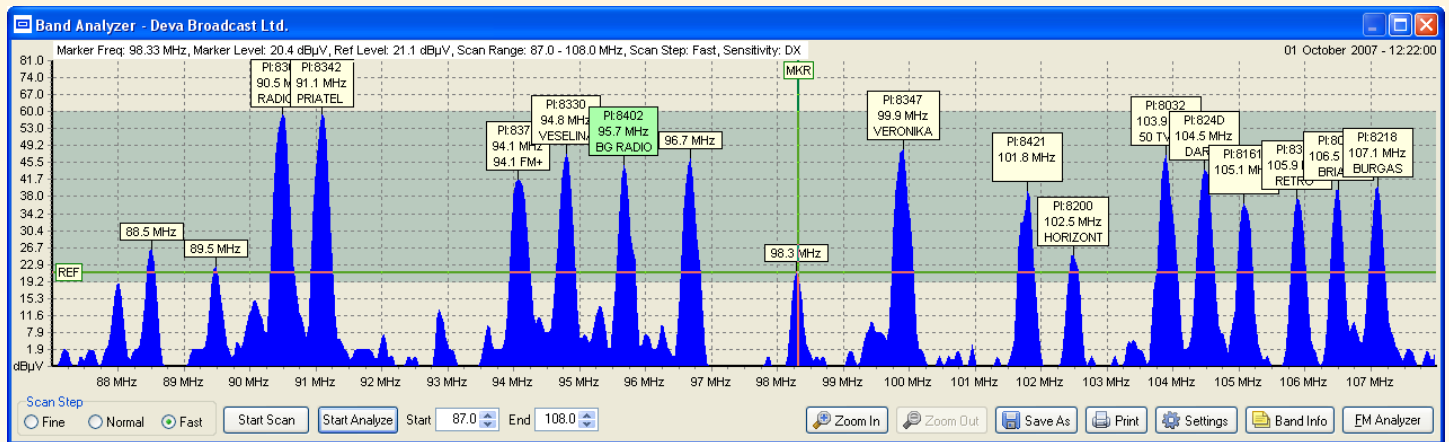


FM BAND SPECTRUM AND MODULATION ANALYZER RDS/RBDS DECODER-READER



"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 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
- 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

SPECIFICATIONS:

FM receiver

FM frequency 87.0 - 108.0 MHz
 Strong fields AGC
 RF level evaluation +/- 4dB from 20°C to 30°C
 Dynamic 0 to 84dBµV
 Attenuator 6dB built-in
 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

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

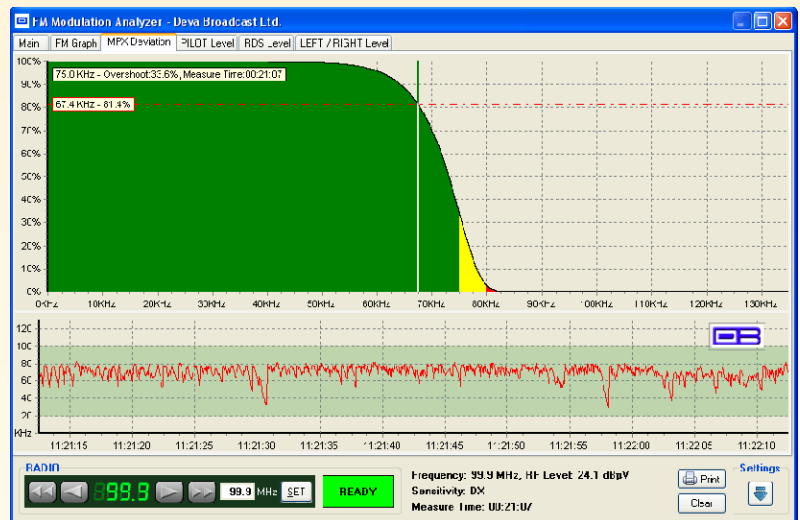
Size and Weight

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

FM Modulation Analyzer



MPX Deviation Overshoot



EXTENDED Log

Date/Time	PV/CALL	RTA
01.10.2007 r. 12:01:44	824D	DARIK - NEWS MUSIC SPORT WwW. DARIK.NET
01.10.2007 r. 12:04:47	824D	STEREOPHONICS - IT MEANS NOTHING
01.10.2007 r. 12:07:45	824D	SUGABABES - ABOUT YOU NOW
01.10.2007 r. 12:10:40	824D	30 SECONDS TO MARS - THE KILL
01.10.2007 r. 12:13:50	824D	FOO FIGHTERS - THE PRETENDER
01.10.2007 r. 12:16:53	824D	ARMAND VAN HELDEN - I WANT YOUR SOUL
01.10.2007 r. 12:19:46	824D	50 CENT FEAT. JUSTIN TIMBERLAKE & TIMBALAND
01.10.2007 r. 12:22:44	824D	THE PIGEON DETECTIVES - TAKE HER BACK
01.10.2007 r. 12:25:43	824D	THE HOOSIERS - GOODBYE MR A
01.10.2007 r. 12:28:39	824D	THE WHITE STRIPES - YOU DON'T KNOW WHAT LD

DATA CHANGE Log

Date/Time	What	Changed to
01.10.2007 r. 12:28:39	PS	DARIK
01.10.2007 r. 12:28:33	PS	104.5 FM
01.10.2007 r. 12:25:28	PS	BURGAS
01.10.2007 r. 12:20:18	PS	DARIK
01.10.2007 r. 12:19:07	PTY	News
01.10.2007 r. 12:19:07	PI	824D
01.10.2007 r. 12:19:07	TP	OFF
01.10.2007 r. 12:17:16	PS	104.5 FM
01.10.2007 r. 12:10:05	Freq Change	104.5
01.10.2007 r. 12:01:15	PI	824D
01.10.2007 r. 12:01:15	TP	OFF
01.10.2007 r. 12:01:37	PS	DARIK
01.10.2007 r. 12:01:33	PS	104.5 FM
01.10.2007 r. 12:01:28	PS	BURGAS
01.10.2007 r. 12:01:18	PS	DARIK
01.10.2007 r. 12:01:18	RTA	DARIK - NEWS MUSIC SPORT WwW. DARIK.NET
01.10.2007 r. 12:01:17	CT	31 Sep 2007, Mon, week 40, 12:26 + 0.0
01.10.2007 r. 12:01:16	AF	5A 91 0 100.6 105.0 105.4 107.3
01.10.2007 r. 12:01:16	PS	104.5 FM
01.10.2007 r. 12:01:15	PTY	News
01.10.2007 r. 12:01:15	PI	824D
01.10.2007 r. 12:01:15	TP	OFF
01.10.2007 r. 12:01:15	TA	ON
01.10.2007 r. 12:01:15	MS	MUSIC

Band Info

No	ID	Freq	Mode	Level	PI	PS	AF List
1	90	90.5 MHz	Stereo	57.0 dBµV	8362	NISSAN	1A, 103.9
2	109	91.1 MHz	Stereo	57.0 dBµV	8342	BURGAS	5A, 91.1, 105.4, 96.4, 89.3, 1...
3	198	94.1 MHz	Stereo	53.6 dBµV	8371	800 42N	7B, 94.1, 94.1, 94.6, 94.1, 94...
4	218	94.9 MHz	Stereo	43.0 dBµV	8330	VESELINA	7A, 94.8, 91.2, 97.7, 91.4, 95...
5	253	96.0 MHz	Mono	35.6 dBµV			Not Transmitted or Unknown
6	273	96.7 MHz	Stereo	37.5 dBµV			Not Transmitted or Unknown
7	366	99.9 MHz	Stereo	43.8 dBµV	8347	VERO	Not Transmitted or Unknown
8	421	101.8 MHz	Stereo	40.0 dBµV	8421	NJOY	Not Transmitted or Unknown
9	480	103.9 MHz	Stereo	47.1 dBµV	8032	0 TV-CHA	1A, 103.9
10	497	104.5 MHz	Stereo	53.2 dBµV	824D	DARIK	5A, 91.0, 100.6, 105.0, 105.4...
11	516	105.1 MHz	Stereo	33.9 dBµV	8161	Z-RO	Not Transmitted or Unknown
12	557	106.5 MHz	Stereo	37.7 dBµV	8041	YUZEN	Not Transmitted or Unknown
13	574	107.1 MHz	Stereo	40.0 dBµV	8218	BURGAS	3A, 105.7, 89.7, 105.6



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