

Radio Explorer III DAB



ADVANCED MOBILE DAB/DAB+ RADIO ANALYZER

Radio Explorer III DAB adds another dimension to DEVA Broadcast's already spectacular range of DAB/DAB+ products. This is an advanced coverage survey mobile tool in full compliance with the ETSI EN 300 401 DAB standard. Among its most important advantages are the two powerful DAB tuners, which account for the unprecedented accuracy and reliability to this product.

Radio Explorer III DAB allows you to monitor up to 10 services within the DAB ensemble with predefined acquisition time in a round-robin scheduler and stores the measured parameters in a log file for further analysis through the DEVA Device Manager software.

It offers support for Program Associated Data (PAD), as well as all standard bitrates and VBR, and automatically displays live metadata. As a tool of immense precision, it also measures the following DAB signals: RSSI, SNR, CNR, FIC Quality, FIB Errors, FFT Offset and the Left & Right Audio level values.

The BandScan function of the Radio Explorer III DAB presents an overview of all DAB/DAB+ signals available, plus their



RF signal strength. BandScans are possible within any section of Band III, whereas the generated spectrum diagram shows the RF Level vs. the channels. Another great asset to this tool is the Loudness meter, which can be shown as defined by ITU BS.1770-4 and EBU R128 recommendations, as the product supports both.

As a matter of course, our aim with Radio Explorer III DAB has once again been to make sophisticated,

high quality equipment easy to use. This product has a high-resolution graphical OLED display with front panel navigational buttons and soft buttons for quick access to the device's various functions. Another option to control the unit is via the built-in Web server - a standard web browser can be used to monitor its status or to make some adjustments. iOS and Android devices are also supported. The Main Screen of the WEB Interface shows all mandatory parameters represented as LED bar graph readings.

The DEVA Device Manager Software, supplied free of charge, also allows for quick and easy connection to the device.

Another elegant solution in our DAB/DAB+ line, the Radio Explorer III DAB brings precision, effectiveness and the customary DEVA quality.

FEATURES

- DAB/DAB+ compliant receiver
- Support for Program Associated Data (PAD)
- Predefined DAB channels scan or manual tune
- Detailed DAB component information
- High-end digital tuner
- Dual tuner frontend for faster service switching
- Protected access to the device settings
- Front panel OLED Graphical Display
- Easy to use WEB Interface
- Apple and Android devices support
- Very Intuitive Application Interface
- Built-in 50-channels GPS Receiver
- SNMP for adjustments and control
- Accurate front-panel metering for local use
- SNTP for automatic synchronization of the built-in clock
- LAN port for full TCP/IP remote control and monitoring
- Adjustable MIN/MAX alarms for RF, Left & Right Audio Levels
- Alarm dispatch via E-mail, SNMP ver.2C and GPO
- Firmware updates will ensure improved operation
- Antenna port supporting up to 110 dBµV direct RF Antenna Input
- Maintenance via DEVA Device Manager Software
- Measurement results visualization in Google Earth
- Headphone output with front panel level control
- 3 General purpose outputs
- Built-in FTP Server for easy download of the Log files
- Robust, custom made Metal Case for high RF immunity

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SPECIFICATIONS

DAB/DAB+ Radio Input	
RF frequency range	168 - 240 MHz
DAB/DAB+	Band III Channels 5A - 13F
Sensitivity	18 dB μ V
Input connector	BNC 50 Ω
In compliance with	ETSI EN 300 401
Ensemble acquisition Time	940 ms
L&R Audio	1%, +5.0 to -50.0 dB, 0.1 dB resolution
DAB/DAB+ Radio Metering	
Quality indicators	RSSI, SNR, CNR, FIC Quality, FIB Errors, FFT Offset
PAD	DLS, MOT
Metadata Displayed	Ensemble Label, Component List & ID, Service List & ID, Dynamic Label, PTY, Sample Rate, Bit Rate, Gain, Mode, Service Mode, Protection Info, Current CU & Address, Country, Language, Time & Date
Outputs	
Audio (L, R)	+6 dBu, 600 Ω , balanced XLR Connector
GPO	Terminals on rear panel, optoisolated
Headphone	6,3mm (1/4") Phone Jack
Communication Interfaces	
USB	B-type Connector
Ethernet 10/100 Base-T	RJ45 Connector
GPS Receiver	
Number of channels	50
Antenna	Pre-amplified, 5m of cable, magnetic
Connector	SMA, rear panel
Measurement Storage	
Storage	16GB Build-in Memory Card
Data format	Text, CSV
Operating conditions	
Temperature	-15°C to 55°C
Humidity	< 95%, non-condensing
Altitude	0 to 5000m above sea level
Power Requirement	
Voltage	12 DC (11-15V) / 2A max at 12V
Connector	XLR (on rear panel)
Size and Weight	
Dimensions (W;H;D)	210 x 76 x 215 mm
Shipping Weight	470 x 180 x 310 mm / 4.031 kg

