

ADVANCED STEREO AND RDS GENERATOR - BS412 COMPLIANT

DEVA's line of broadcast tools can now boast a groundbreaking new device that provides a multitude of unparalleled features to meet the strictest requirements. It is fully BS412-compliant, making sure that you can achieve the loudness of sound that you need while retaining perfect sound clarity. It is compatible with all types of transmitters and provides the same consistent level of high-quality sound, fulfilling even the strictest customer requirements. The foundation of this exceptional tool is the 32bits DSP-based Stereo Generator combined with a built-in RDS/RBDS encoder. It allows you to use both analog and digital AES/EBU audio sources and supports SNMP, RS232, UDP and TCP/IP communication protocols.

The RBS/RBDS encoder can parse scrolling text, automatically separating phrases into word groups. Programming access with the USB, TCP/IP and UDP/IP interfaces is also a matter of course. This allows for full integration with the station's other networked functions including message streams for digital radio and Webcasting. It also offers an ASCII protocol for broadcasting song/artist information.

What makes this tool especially valuable is its ability to provide against the dead air problem. It detects audio loss and switches automatically to the alternative MP3 player whose backup audio files and playlists can be uploaded from your PC through any FTP client. Its storage capacity is 8GB.

The DB6000-STC is undoubtedly the cream of the crop - easy to use, versatile, dependable and innovative, supplying even the most demanding clients with the best solution that leaves no room for improvement.



FEATURES

- Excellent Audio Performances
- Adjustable Pilot, L-R, RDS phases
- Fully Digital 32 bits DSP Stereo Encoder
- Digital Volume Control of all Audio Inputs
- Selectable pre-emphasis 0, 50µs, 75µs
- Digitally adjustable Pilot & RDS injection levels
- Intelligent Silence Detector and Backup Audio Player
- Configuration and Monitoring via SNMP Ver.2C & WEB
- Alert Notifications via E-mail, SNMP in case of Audio Loss
- Professional 19 inches, 1U Professional rack mount chassis
- Lots of Storage for over 24 hours of non-repeating audio playback
- Always Fresh Backup Audio Tracks with Embedded FTP server
- Professional Balanced Stereo Analog Input on XLR connectors
- Professional Digital AES/EBU Audio input on XLR connectors
- Headphones Jack for local monitoring of the Audio Signal
- Remote Firmware Upgrade for future-proof operation
- Built-in MP3 Player with built in 2GB SD Card
- UPnP for easy discovery in Local Networks
- Fully Digital Synthesis of the RDS Signal
- Protected access to the device settings
- Easy installation and operation
- 2 Years Warranty

SPECIFICATIONS

Analog Audio Input

Connectors	Main - 2 XLR [1] [2]; Auxiliary - DB9 [1] [2]
Configuration	Stereo
Input level (0 dBFS)	[4] -8 dBu to +24 dBu peak
Impedance	Jumper selectable 600Ω / >10kΩ
A/D Conversion	24 bit; 48 kHz sample rate; Differential inputs

Analog Audio Output

Connectors	2 XLR [1] [2]
Configuration	Stereo. [4] flat, pre- or de-emphasized
Out Level (0 dBFS)	[4] -12 to +24 dBu peak into ≥ 600Ω load
Source Impedance	20Ω
Load Impedance	>= 600Ω, balanced/unbalanced
Signal-to-Noise	>= 110 dB unweighted [5]
Distortion	<= 0.01 THDN [5]
D/A Conversion	24 bit; 192 kHz rate; Differential outputs

Remote Access Interface

Configuration	TCP/IP via USB or Ethernet interface
USB Connector	USB type B connector
Ethernet Connector	Female RJ45, 10/100 Mbps CAT5

Remote Control Interface (GPI)

Connector	DB-9 male
Configuration	8 LED optocoupler, current limited cathode inputs. Anodes are connected to VCC int.
Control	Selects corresponding user preset if connected to GND

Environmental

Operating Temperature	0° to 50°C / 32° to 122°F
Humidity	0–95% RH, non-condensing

Power

Voltage	100-240 VAC, 50-60 Hz, 30VA
Connector	IEC, Fused and EMI-suppressed.

Digital Audio Input

Connectors	Main - XLR [1] [3]; Auxiliary - DB9 [1] [3]
Configuration	Stereo AES3 standard, up to 24 bit resolution
Sampling Rate	22 kHz to 192 kHz
Input Gain	-20 dB to 20 dB, referenced to 0 dBFS, [4]

Digital Audio Output

Connector	XLR [1] [3]
Configuration	Stereo AES3 standard, 24 bit resolution. Software selectable flat, pre- or de-emphasized
Sample Rate	Internal - 32,44.1,48,88.2,96,176.4,192kHz. Externally synced to Main AES3 digital input at 32 to 192 kHz. Software selectable.
Word Length	24 bit
Output Ref. Level	-20 to 0 dBFS software selectable

Composite Baseband Output

Connectors	BNC unbalanced, chassis floating, [1]
Configuration	2 outputs. Independent level control. MPX+MPX, MPX+PILOT or BYPASS
Source impedance	75Ω
Load impedance	50Ω or greater
Output level	-18dBu to +18dBu
Pilot level	0% to 15%
D/A conversion	24 bit, differential
SNR / THD	>80 dB [6] / <0.01% [6]
Stereo Separation	>60dB
Crosstalk	>70dB
Pilot protection	>90dB rel. to 9% pilot injection, ±250 Hz 38 kHz suppression >80dB (referenced to 100% modulation)

Size and Weight

Dimensions (W;H;D)	483 x 44 x 180 mm / 19 x 1.875 x 7"
Shipping Weight	540 x 115 x 300 mm / 2.6kg

- [1] - EMI suppressed
- [2] - Electronically balanced
- [3] - Transformer balanced and floating; 110Ω impedance
- [4] - Software selectable

- [5] - Bypass mode, digital input, flat, 20Hz-15kHz bandwidth, referenced to +12dBu output level
- [6] - Bypass mode, flat, 20Hz - 15kHz bandwidth, digital input referenced to -10dBFS, unweighted



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