We, at DEVA, are enterprising, extremely driven and hardworking professionals, passionate about what we do. Our expertise built on almost two decades of work in the broadcasting industry inspired us to enter a whole new level of proficiency, where technology and innovation work together in a critical importance.

It was the real-world know-how of the broadcasting equipment that led DEVA in every step of DB6000’s process of creation. It stands for cutting-edge design which meets cutting-edge engineering. Containing a combination of features with no equal on the market, this audio processor was built to obtain the perfect balance between power and performance.

By continuously developing new features and capabilities for our devices, we have managed to enhance the DB6000 even more by integrating a DSP-based Stereo encoder assures an extremely precise MPX Signal with advanced peak control and two independently configurable composite MPX outputs. We have also added a feature never incorporated in an audio processor of this price class before – the built-in IP Audio player supporting MP3 and PCM audio formats. Another complimentary feature is the fully dynamic RDS/RBDS encoder.

The ultra-low latency DSP based design guarantees the broadcasters control over the most important sonic parameters and assures clean, artifact free audio. The processing includes dual stage wideband AGC with “intelligent gating”, multiband adjustable range equalizer, sophisticated multiband peak limiter and advanced distortion controlled pre-emphasized final clipper. Thus, DB6000 will guarantee you perfect sound quality, regardless of the source material.

DB6000 combines unique merits contained in a single product, Fallback function included. If silence in the main (default) audio input is detected, the DB6000 will automatically switch to the fallback input, which can be any of the ones utilized by the device. Most importantly, DB6000 is the industry’s first audio processor to have an independent back-up audio source – fresh audio will always be delivered by the built-in audio player. An email notification will be sent immediately upon change in the main audio input, thus, allowing your technical support team to react on the very instant. The back-up content is easily updated via any PC, using standard FTP client. The fallback function works the other way round-when the signal at the default input is restored the DB6000 will automatically switch back to it. All silence sense parameters are user-defined.

As all DEVA products are designed with the idea of user friendly operation, the DB6000 comes with a very clean, intuitive and well-organized user interface. It allows easy setup and full control via the front panel and remote control access via TCP/IP. The HTML 5 based WEB interface allows the unit to be accessed remotely through iOS, Android or any other mobile device.

Make use of the extensive set of factory presets of the device, optimized for popular radio formats and several user-defined presets. Thanks to DB6000’s great processing power not only the music, but also the speech will be enhanced to perfection. An exceptionally clean audio is invariably achieved without compromise, at an affordable price.

DB6000 is the perfect combination of flexibility and reliability to meet the most demanding broadcasters’ requirements.
FEATURES

- Ultra low latency, all-digital DSP based design
- 4 bands of adjustable dynamic range compression and ‘graphic-EQ’
- Extensive set of factory presets and several customizable user presets
- L/R Analog inputs and outputs and two independent Composite MPX outputs.
- Integrated digital stereo generator with advanced peak control
- Built-in web server for remote control access via TCP/IP connection
- Software Control (over local network or the Internet using any Windows® PC)
- Advanced, fully distortion-controlled pre-emphasized final limiter/clipper
- Built-in DSP-based RDS/RBDS encoder
- Bright, wide view angle OLED and full-time LED meters
- Easy setup and control via the front panel
- Remotely upgradable firmware to ensure improved operation
- Headphone output with front panel level control
- Advanced Multiband Limiter
- Adjustable wide-band AGC with “intelligent” gating
- Externally synchronized output sample rate
- Tight peak control at all outputs
- Intelligent Silence Detector
- Fallback function in case of Audio Loss
- Variety of Audio Sources
- Multi-format IP Audio Player
- Built-in MP3 Player
- SD Card for Audio Backup Storage
- EMI-suppressed XLR connectors
- Stereo encoder integrated with audio processing
- Bypass and Test tone Mode
- Embedded SNMP agent permitting full device management
- Easy to use WEB interface
- Apple and Android devices support
- SNTP for automatic synchronization of the built-in clock
- Notifications on input/preset change via E-mail and SNMP
- Protected access to the device settings
- Professional AES/EBU Digital audio inputs
- Level Adjustable, Balanced Analog and Digital Audio Outputs
- LAN port for full TCP/IP remote control and monitoring
- USB communication interface for local connectivity
- Restore Factory Parameters option
- Easy Installation and Setup
- Wide operating voltage range: 100-240V AC
- 19” Professional Case for high RF immunity
## SPECIFICATIONS

### Analog Audio Input
- **Connectors**: Main - Two XLR, EMI suppressed, Auxiliary - DB9, EMI suppressed
- **Configuration**: Stereo
- **Input level**: Software selectable -8 dBu or +24 dBu peak
- **Impedance**: 600Ω / >10kΩ
- **A/D Conversion**: 24 bit, 48 kHz sample rate; Differential inputs

### Analog Audio Output
- **Connectors**: 2XLR, EMI suppr., electronically balanced
- **Configuration**: Stereo. Software selectable flat, pre-emphasized or de-emphasized
- **Output Level**: Software selectable -12 dBu to +24 dBu peak into >= 600Ω load
- **Source Impedance**: 20Ω
- **Load Impedance**: >= 600Ω, balanced/unbalanced
- **Signal-to-Noise**: >= 110 dB unweighted
- **Distortion**: <= 0.01 THD
- **D/A Conversion**: 24bit; 192kHz sample rate; Differential outputs

### Digital Audio Input
- **Connectors**: Main - XLR, EMI suppressed, 110Ω imp.; Auxiliary - DB9, EMI suppressed, 110Ω imp.
- **Configuration**: Stereo AES3 standard, 24 bit resolution
- **Sampling Rate**: 22 kHz to 192 kHz
- **Input Gain**: -20 dBFS to 20 dBFS, referenced to 0 dBFS

### Digital Audio Output
- **Connector**: XLR, EMI suppressed, transformer balanced and floating; 110Ω impedance
- **Configuration**: Stereo AES3 standard, 24 bit resolution.
- **Sample Rate**: Internal - 32,44.1,48,88.2,176.4,192 kHz.
- **Word Length**: 24 bit
- **Output Reference Level**: -20 to 0 dBFS software selectable

### Composite Baseband Output
- **Connectors**: BNC unbalanced, chasis floating, EMI suppr.
- **Configuration**: Two outputs. Independent level control.
- **Source impedance**: 75Ω
- **Load impedance**: 50Ω or greater
- **Output level**: -12dBu to +12dBu
- **Pilot level**: 0% to 15%
- **D/A conversion**: 24 bit, differential
- **SNR**: >80 dB
- **THD**: < 0.01%
- **Stereo Separation**: >60dB
- **Crosstalk**: >70dB
- **Pilot protection**: >90dB rel. to 9% pilot injection, ±250 Hz
- **38 kHz suppression**: >80dB (referenced to 100% modulation)

### Remote Access Interface
- **Configuration**: TCP/IP via USB or Ethernet interface
- **USB**: Type B connector
- **Ethernet**: Female RJ45 shielded; 10/100 Mbps CAT5

### Remote Control Interface (GPI)
- **Connector**: DB-9 male
- **Configuration**: Eight LED optocoupler anode inputs.
- **Voltage**: 9-15V DC. 12V DC and GND provided through connector pins
- **Control**: Selects corresponding user preset

### Size and Weight
- **Dimensions**: (W,H,D) 485 x 44 x 180 mm
- **Shipping Weight**: 540 x 115 x 300 mm / 2.6kg

### Power
- **Voltage**: 100-240 VAC, 50-60 Hz, 30VA
- **Connector**: IEC, Fused and EMI-suppressed

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WE NEVER SPARE EFFORTS AND RESOURCES TO TURN OUR IDEAS INTO SUCCESSFUL PRODUCTS