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## Linear Acoustic wins prestigious BIRTV Outstanding Product Award for UpMAX™ 2251 multichannel audio processor

*Chinese broadcast and film experts select outstanding examples of professional broadcast technology.*

Lancaster, PA: Linear Acoustic, an innovator of leading-edge distribution and signal-processing products for radio, television, cable, satellite and DBS industries, has been awarded a coveted "Award for Outstanding Product" by the organizers of BIRTV Expo for the **UpMAX™ 2251 5.1 Channel Surround-Field Synthesizer**, which produces 5.1-channel audio from a standard two-channel mix, with full control of center width and surround. The Beijing International Radio, TV & Film Equipment Exhibition is held each year at the China International Exhibition Center.

In addition to **UpMAX 2251**, Linear Acoustic offers a range of multichannel TV systems, including the **OCTiMAX 5.1 Digital Television Audio Processor**, which combines multichannel, multiband dynamic processing with audio metadata functionality and local audio insertion capability; a built-in UpMAX section converts a standard two-channel mix into 5.1-channel audio, with full control of center width and surround depth.



Tim Carroll (*left*), Linear Acoustic president, is congratulated by Professor Qian Yuelin of China National Radio upon receipt of a BIRTV "Outstanding Product Award" for the company's UpMAX 2251 5.1 Channel Surround-Field Synthesizer.

"We are extremely honored to have received such a unique and prestigious award from BIRTV," offers Carroll.

Judges for BIRTV Product, Technology, and Application Project Awards are authoritative Chinese broadcast and film experts that select outstanding examples of professional broadcast technology. The awarded technologies and products serve as directives for the entire industry, making BIRTV awards of paramount importance for the Chinese broadcast and film industry.

The latest BIRTV Expo in Beijing attracted 382 exhibitors and 52,000 visitors, including network, station and production house management.

Note to editors and writers: High-resolution copies of this and other images in TIFF/JPEG formats are available upon request from Mel Lambert.

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**PRODUCT PROFILE: OCTiMAX 5.1 Digital Television Audio Processor**

Combining multichannel, multiband dynamic audio processing with a stereo-to-5.1-channel up-mixer, OCTiMAX 5.1 accepts a conventional stereo analog or digital signal and produces a fully mono- and stereo-compatible, 5.1-channel output audio. A proprietary Auto Voiceover™ feature allows straightforward insertion of voiceover audio, while UpMax™ - a user-selectable two-channel-to-5.1-channel up-mixer with full control of center width and surround depth - enables local and network audio to be transformed into excellent quality 5.1 audio. The resulting signal is fully mono, stereo and matrix surround compatible.

OCTiMAX 5.1 also generates an Lt-Rt-compatible stereo downmix of the main program that can be used to feed legacy two-channel systems. The processing structures support eight mono programs, a 5.1- plus two-channel program, and any format in between. A proprietary processing structure combines a two-band AGC with five bands of compression, look-ahead and peak limiting for each channel of audio. Advanced multiband source noise reduction is available to improve the sound of legacy films and older television programs.



**PRODUCT PROFILE: UpMAX™ 2251 5.1 Channel Surround-Field Synthesizer**

This unit produces a fully mono- and stereo-compatible, 5.1-channel output from a conventional left/right stereo signal input. The flexible unit offers full control of center width and surround depth. Using proprietary processing to create downmix-compatible left, right, center, surround and LFE channels from the two-channel main input, the "surround-field" can then be adjusted via Center-channel Width and Surround-channel Depth controls, allowing programming from simple stereo to Lt-Rt to be appropriately reproduced from a 5.1-channel playback system. A bass-enhancement signal for the LFE channel is derived from the left, center, and right channels, allowing fast creation of a subwoofer channel without removing anything from the main channels that would compromise a down-mixed version of the program.

In addition, the unit accepts external center/LFE, left/right surround, and left/right front signals. Using front-panel controls, these unprocessed external signals can be mixed with the internally produced left, right, center, LFE and surround signals. This function allows stereo crowd noise, stereo music and announcers, for example, to be added to mix-minus programs. A 5.1 channel program can quickly and easily be created from standard two-channel programs and some stereo microphones.

With over 75 installations in major broadcast networks and television stations, Linear Acoustic audio processing products deliver the sound that consumers expect.

Linear Acoustic has been involved in projects with Dolby Laboratories, Sirius Satellite Radio, Microsoft, all major terrestrial networks, multiple local stations, HBO, Viacom (Showtime, MTV, etc.), Disney, Miramax, Sony Studios, and others. It is also actively involved in the ATSC, the NRSC and other industry organizations, as well as being members of the AES, IEEE and a sustaining member of the Society of Motion Picture and Television Engineers.

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