PRESS NEWS

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# NTi Audio presents High-Resolution Polar Plot Measurement

**The professional NTi Audio microphone measurement system has been extended with a high-resolution polar plot feature. The newly developed NTi Audio precision turntable enables fully automated measurement of the microphone's directional response from 20 Hz to 20 kHz in arbitrary resolution.**

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The polar plot analysis with the NTi Audio turntable complements the microphone measurement system to an all-in-one test solution for development, production and maintenance of microphones. The NTi Audio Microphone Test System provides a complete set of measurements, paired with individual tolerances for the total quality control of individual microphone components or final products, such as mobile phones, vocal microphones or headsets.

## All-in-one Microphone Test Solution

The NTi Audio microphone test system includes the high-speed RT-2M audio analyzer and a sophisticated software platform "RT-Microphone". Further accessories, such as reference microphones, reference speaker, automation interfaces and the newly developed turntable complete the test solution. It offers the measurement functions: Frequency response, sensitivity, distortion, signal-to-noise ratio, polarity, directivity and polar plot. Additionally the PureSound measurement detects any audible mechanical imperfections of the microphone.

## Polar Plot in Practice

The polar diagram displays the directional characteristic related to the measurement frequency of the microphone. In practice the microphone is mounted on the USB controlled turntable. The adjustable mount allows placing the microphone capsule exactly in the center point of the turntable during the measurement. The measurement resolution and frequencies to be displayed in the polar plot can be set in the controlling RT-Microphone software. For detailed analysis, the measurement angles might be set in arbitrary resolution less than 1°. Pressing the GO button starts the fully automated polar measurements. The high-speed audio analyzer generates a series of fast sweep signals, covering the complete audio band from 20 Hz – 20 kHz, and turns the microphone to the configured angles between the sweeps. The measurement time halves by choosing the 180° mode, which mirrors the polar image. Customers may add further frequencies to be shown on the polar diagram even after the completed measurement and set the diagram scaling and data

smoothing. The polar plot analysis with the NTi Audio turntable complements the microphone measurement system to an all-in-one solution for development, production and maintenance of microphones.

For more visit NTi Audio at:
www.nti-audio.com

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**About NTi Audio**

NTi Audio AG develops highly qualified and customized measurement solutions for the pro audio and telecommunications industry. NTi Audio's main product lines are the handheld EXEL line, the A-Series audio analyzers, the RAPID-TEST production line test systems as well as complete turnkey tests solutions based on PureSound – a unique defects analysis technology. The headquarters of NTi Audio are in the Principality of Liechtenstein (Europe). Subsidiaries are NTI Americas Inc in Portland, NTI China in Suzhou and NTI Japan in Tokyo. NTi Audio AG is the new company name of the earlier NTI AG.

**Information for journalists:**

Hi-res product pictures are available at the NTi Audio website - press area:
www.nti-audio.com/tabid/220/Default.aspx