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Fast Microphone Quality Testing

NTI introduces the new microphone test system RT-Microphone, a complete dedicated solution for fast and reliable quality control of microphones in production. It provides the essential 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. The typical test cycle time is less than 3 seconds.

The NTI 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 and automation interfaces, complete the test solution. It offers the measurement functions: Frequency Response, Sensitivity, Distortion, Signal-to-Noise Ratio, and Polarity. Additionally the PureSound measurement detects any audible imperfections of the microphone. The patented PureSound technology provides an objective microphone quality test with a unique 100% correlation to the perception of human hearing.

Saving production costs

Philipp Schwizer, CEO of NTI HQ, highlights: "Saving costs and simultaneously increasing product quality are the primary manufacturer's tasks in today's fast changing economy. RT-Microphone satisfies exactly these needs. It's a highly cost-effective solution with a surprisingly low cost of ownership that guarantees fast and reproducible test results."

Integration in production lines

The flexible user interface of the "RT-Microphone" software is based on the state-of-the art .NET3.5 technology. It speaks "the language of the client" by offering the results and text prompts in different languages, such as English, Chinese and Korean. An automated calibration sequence compensates the frequency response of the reference speaker and a representative set of golden samples defines the PASS/FAIL tolerances in the

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smart “Learn-Mode”. All test results are directly logged into Microsoft Excel files (*.xlsx) including serial number or barcode information. The audio analyzer RT-2M includes the power supplies for the microphone under test already, thus keeping the test station simple and tidy. More complex test configurations, such as two or more microphones measured sequentially, are handled by the 10-channel Switcher IS-1002.

Inspection tool for rental companies

RT-Microphone is also useful for the incoming inspection at rental companies, thus only passed microphones are re-stored in the warehouse and possible defects can be charged back to the rental client.

About NTI

NTI AG develops highly qualified and customized measurement solutions for the Pro-Audio and telecommunications industry. NTI’s main product lines are the Minstruments, 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 are in the Principality of Liechtenstein (Europe). Subsidiaries are NTI Americas Inc in Portland, NTI China in Suzhou and NTI Japan in Tokyo.

Information for journalists:

1. Hi-res product pictures are available for download at the NTI website - press area:
www.nti-audio.com/tabid/220/Default.aspx
2. Evaluation units for journalists are available on request.
Please contact us by mail: support@nti-audio.com