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The Digital Speech Level Analyser predicts a speech quality score and measures the characteristics of the speech channel. It generates a linguistically motivated artificial speech test signal and evaluates the resultant signal after it has been processed by any network or network element, even those subject to packet loss or variations in delay. The Phonytalk™ process can use any user-defined signal as stimulus. This versatile instrument is essential equipment for developers and operators of voice activated devices, codecs, echo-cancellers, transcoders, VoIP gateways, telephones and networks.

- Measure the quality of the speech transmission in terms of listening effort and listening quality on a scale of one to five
- Generate the Phonytalk™ linguistically motivated artificial speech test signal in different languages
- Measure delay, echo, noise

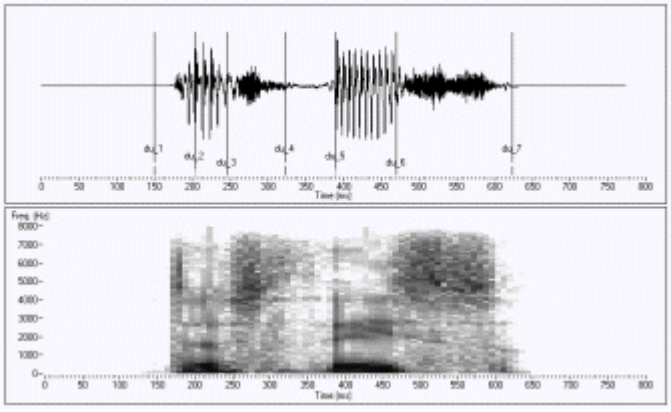


- Measure, repeatably, the mean active speech level in accordance with ITU Recommendation P.56 Method B
- Measure Voice Activity Detector operation
- Measure Comfort Noise Level in the presence of speech
- Record the received signal for later analysis
- Create your own complex signals using a wide range of programmable sources and filters
- Make test calls, measure and record the results as well as the signal from the network element under test
- Windows operating environment makes test set up simple
- Bring the test process to your laptop or desktop by controlling the DSLA locally or remotely via the RS232 serial connection, or via an optional IEEE-488 bus

Using a Digital Speech Level Analyser to determine the characteristics of a speech path stimulated with the Phonytalk™ test signal will provide a useful insight into the path performance with real speech. The PAMS process compares the original and received signal and determines Mean Opinion Score predictions, on a scale of 1-5, for the listening quality and listening effort. The linguistically motivated artificial speech signal contains a representative selection of sounds put together in legal strings to provide a brief speech signal that does not contain the redundancy of real speech.

The Phonytalk™ test signal can be defined entirely by the user. In addition to the linguistically motivated artificial speech test signal described above the user can include any other programme material, add noise or other interfering signals and build up complex test processes.

The Digital Speech Level Analyser comprises a signal processor connected to the serial port of a host computer.



A Windows user interface is provided for an optimum environment so that test processes can be quickly defined and implemented. The user has options to align the signal levels to the system under

evaluation, to generate the Phonytalk™ test signal in a variety of modes, to record the results of measurements on the received signal for subsequent analysis and to record the received signal. The two channel Digital Speech Level Analyser operates in 4-wire mode or as a telephone device.

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