



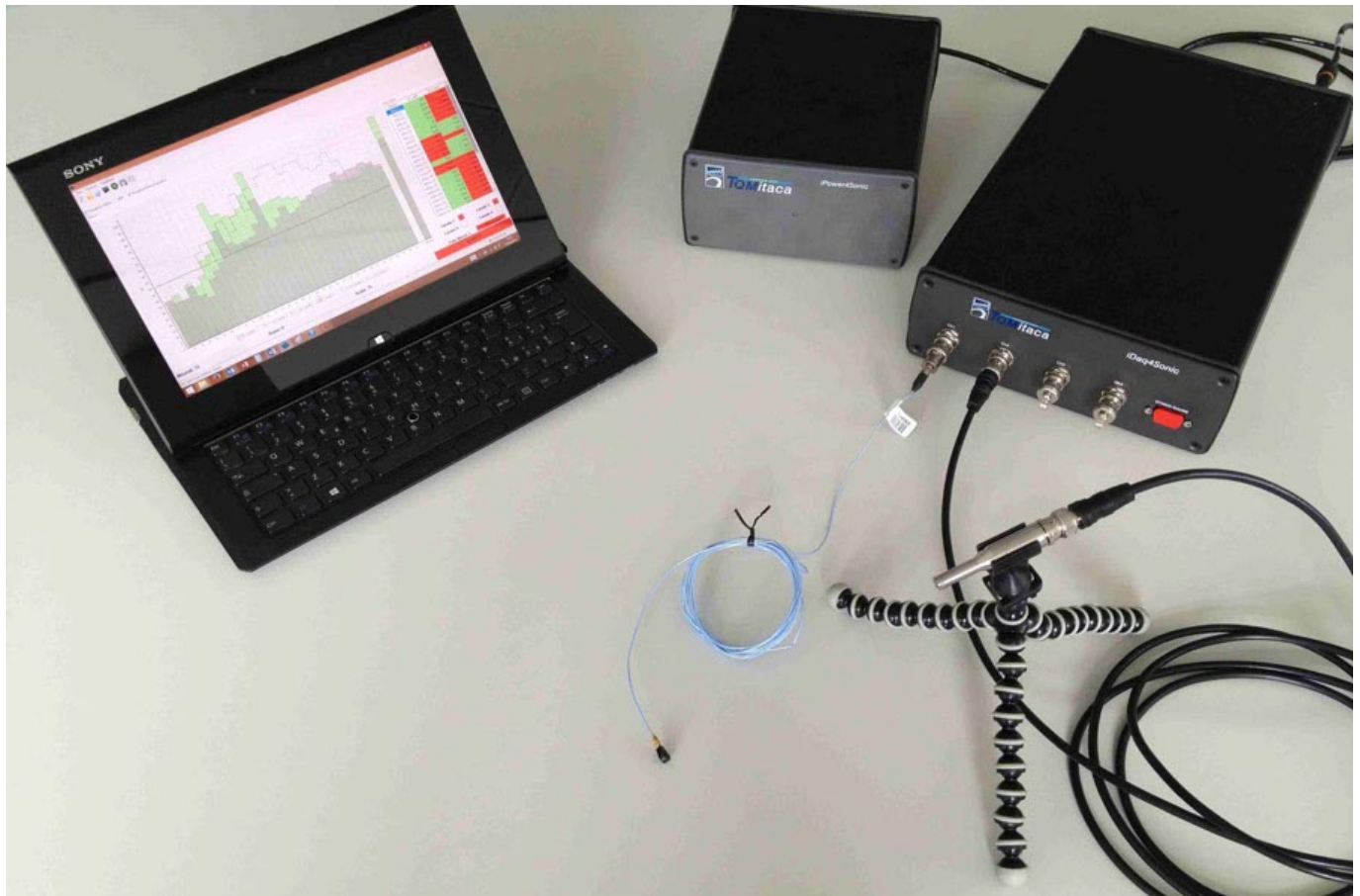
Noise control – itanoise

Itanoise[®] is the system for the measuring of the noise of mechanical components during their functioning.

It can be used in laboratory or directly in a production line for the 100% control of the produced components.

The equipment is composed of:

- Software Itanoise[®]
- PC
- Sensor Box Idaq4Sonic
- Power supply iPower4Sonic
- Sensor – Accelerometer, Automatic Accelerometer, Microphone.

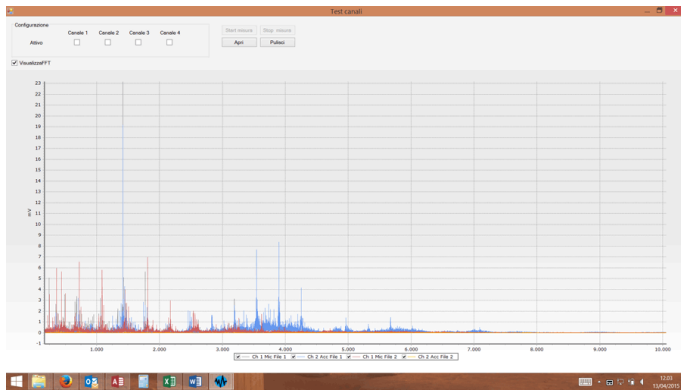


The choice of the sensor depends on factors like:

- Working environment: verification of the influences external to the test (noise, vibrations, etc...)

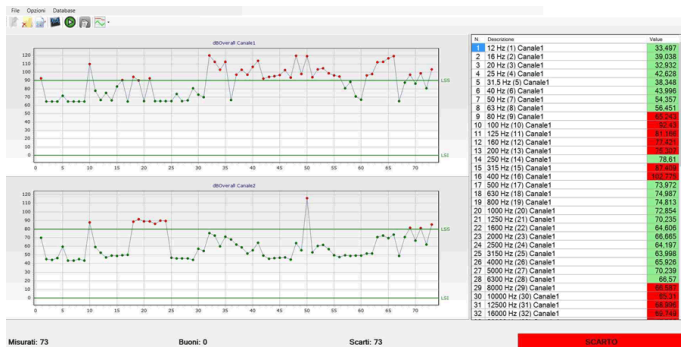


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FFT Analysis

In this graph it's possible to see highlighted all the single frequencies which compose the sonic spectrum acquired during the test.



Individual values chart for each frequency

In this image are represented the individual values charts of the two characteristics: dbOverall sensor 1 and dbOverall sensor 2 measured on 73 pieces. The result of the test, at the right bottom, is total and it considers all the analysed frequencies.

Main features:

- Data saved in Itastat6 database in SQL format
- Users management with operator permissions
- Auxiliary Data management
- Menu for the station configuration
- Guided creation of the control plans/measuring programs, where define all the parameters of the test
- Possibility to manage up to 4 sensors at the same time
- Noise analysis in octave and in one-third octave, with tolerances which can be defined for each frequency
- Automatic calculation of the tolerances on the base of the pieces defined "Good"



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- Measure in db and in dbA
- Measuring of the db Overall for each sensor used
- Configurable duration of the test
- Availability of an advanced Transfer Function in order to compare the measures made by different sensors
- I/O management for the interfacing with the line and/or with the load system
- Possibility to manage the piece ID, both from the keypad and from readers integrated in the bench
- Large possibility to personalize Hardware and Software
- Hardware components easily integrable in existing lines
- Special contact sensors, with automatic activation, studied for the use in 100% control.

Itanoise[®] is available in manual version for laboratory and in automatic version to be integrated in existing lines.

It's possible to realize complete test stations, with load/unload system, piece clamping, power supply, automatic test cycle, unloading after test and separation good/reject.