Software Release Note

New Features and Updates
Scan & Paint 2.0

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Support of reference sensors

Two reference sensors can be added to obtain the relative phase information

- Microphones (IEPE / CCP / ICP)
- Accelerometers (IEPE / CCP / ICP)
Video and Audio playback option

Allowing a quick preview of a complete measurement and the speed of reproduction can be changed. Also enables to equalize audio snap to point (the frequency band filtering).
Tracked position exclusion tool

Two new options:
- polygon selection (now different measurement points can be chosen and deleted with one CLICK)
- scanning speed (the measurement point can be selected by the time expended in each position and deleted the ones that are under the threshold).
Auto-offset function

The offset between the tracking color and the actual sensor position can now be set automatically by selecting two points in the map.
Control over graphical display

Improvements are the possibilities to adapt the buttons and sliders to PC screen resolution and to choose the keyboard button to start/stop measurement.
Problem reporting

- **Log file:**
  - Automatic error/problem report generated by the system
- **Direct mail contact with Microflown Customer services**

![Email Form](image)
Reactivity error display

Displays the estimation of the uncertainty that reactivity index and the phase mismatch of Microflown and pressure sensor introduce in the sound intensity measurement.
Multi-view display

This option enables comparison of various projects or measurement files at the same time (same analysis and the same scaling)
Graphic displays | New options

- Copy/paste
- Compare
- Sum and average different plots

Figure 1. Copy and paste graphs
Graphic displays | New options

Power spectrogram analysis has been improved by adding X and Y selections, being able to select and analyze a certain time or frequency band.
Graphic displays | New options

- Double cursor analysis
- Harmonic cursor
Graphic displays | New options

- Export to .wave file

- Complete flexibility in markers selection
Grid calculation method

Gives the opportunity to create smaller sub areas where measurement data are averaged. The result becomes more stable and more suitable to process the multiple scans. Grid method improves the accuracy of the results by adjusting the spatial resolution.
Absorption mapping

Better integration of absorption measurements in Scan & Paint. Calibration measurements can be directly loaded.
New mapping and plotting options

In recording stage there are new possibilities to real time plot the following new parameters:
- coherence between channels
- transfer function between reference and main channels.
New mapping and plotting options

In the processing stage the following plotting options are now available: transfer function and coherence between PU channels and activated reference channel(s).
New mapping and plotting options

In the analyzing stage following new parameters can be mapped:
- coherence between channels
- transfer function between channels
- reactivity index error estimation
Reporting tab

- Image resizing and reallocation
- New pages generation
- New exporting functionalities to .pdf and image file