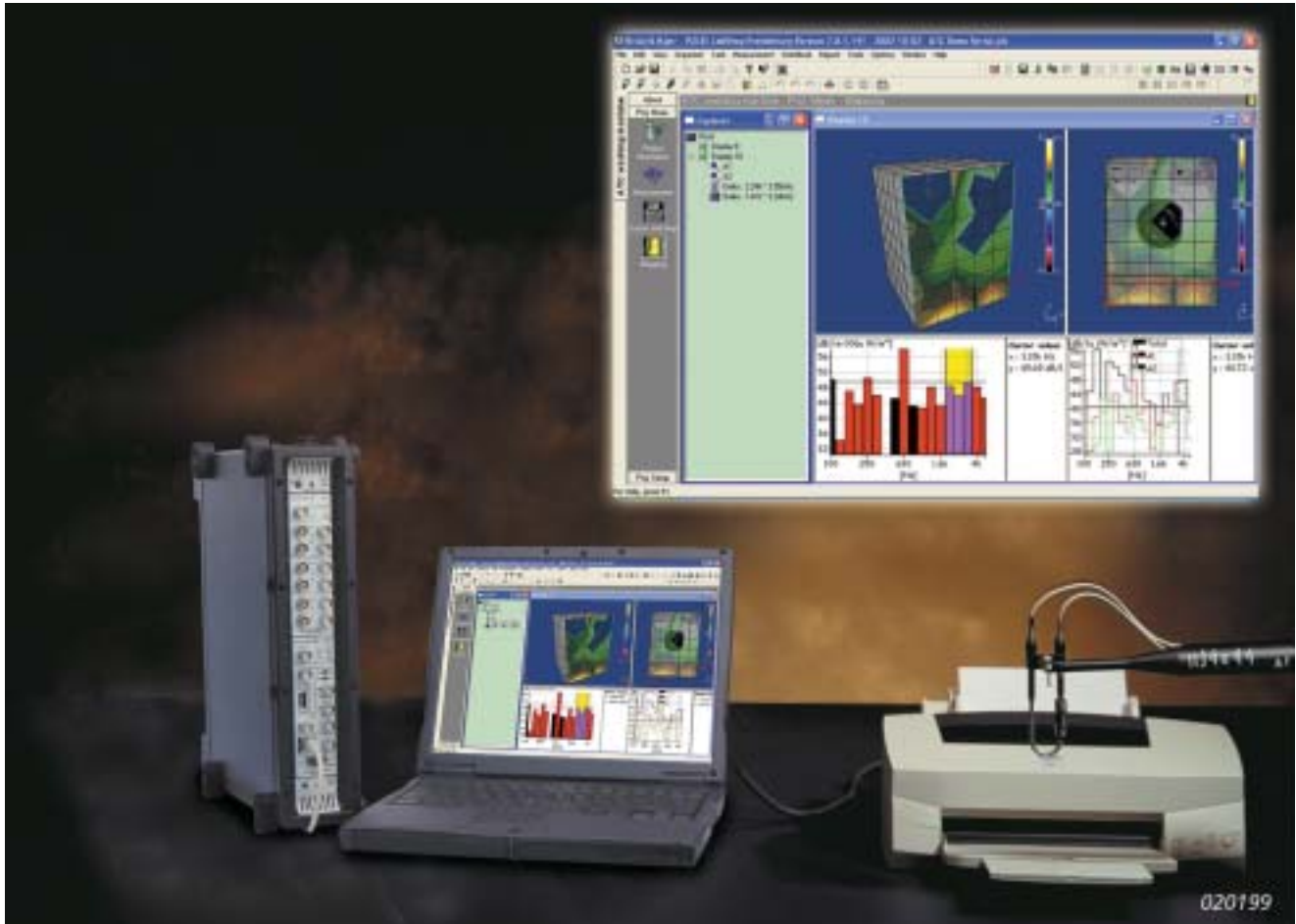


# PRODUCT DATA

## Noise Source Identification — Type 7752 for PULSE, the Multi-analyzer System

Noise Source Identification Type 7752 is mapping software that can be used to analyse and visualise, for example, sound-intensity measurements on rectangular surfaces for identification and location of noise sources. Colour-contour mapping of the intensity spectra provides helpful information as to where sources and sinks are located on the measurement surface and on where the noise sources are located on the product under test. The intensity spectra and mapping of specific frequencies and frequency bands in specific areas can be used to identify the phenomena that cause the noise problem. Finally, the sound-power values are a useful tool for identifying noise sources, to help establish the strength of the various sources where refinement of the product under test is most beneficial.



### USES

- Determination of dominant noise sources
- Calculation of sound power
- Analysis of the contribution of individual sub-sources
- Comparative analysis of products or parts

### FEATURES

- Accepts any 1/nth octave, FFT or synthesised spectra
- Colour-contour mapping of any data as measured by

ATC or PULSE™ via Universal File Formats on multiple, regular, planar surfaces

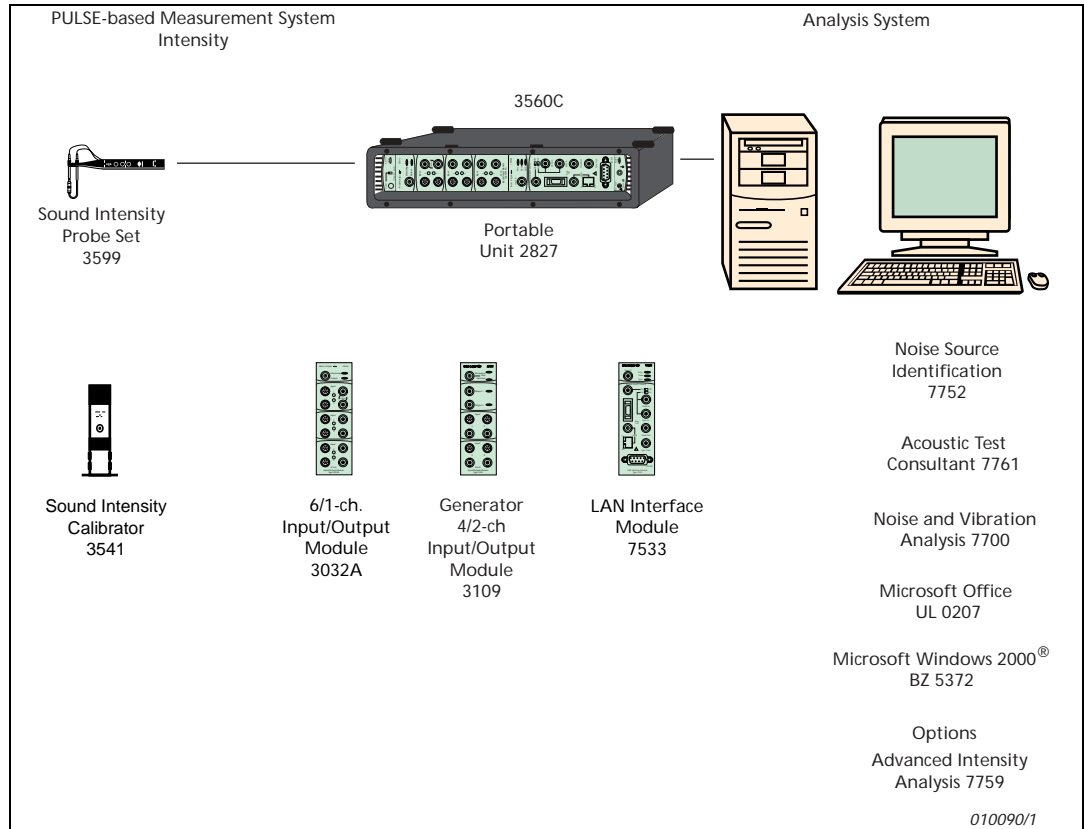
Calculates sound power of the total model, individual surfaces and named areas

Fully synchronised displays between 2D and 3D colour-contour maps, spectra and sound-power spectra

Integrates with advanced source location solutions (e.g., Spatial Transformation of Sound Fields, and Beamforming)

7752

**Fig. 1**  
*Instrument setup  
 for measuring  
 sound intensity us-  
 ing PULSE™*



Noise Source Identification Type 7752 is easy-to-use software for colour-contour mapping of intensity-based measurements on multiple, regular, planar surfaces.

### Data Acquisition

Using Type 7752 together with Acoustic Test Consultant (ATC) Type 7761, you can automatically transfer data for viewing purposes. Using information submitted earlier in ATC's Project Information function, mapping of your test data occurs automatically and is displayed as a colour-contour simultaneously as the measurement takes place. For other types of analysis, it is open to data-sharing with other programs via such industry-standard file formats as UFF binary, UFF ASCII and PULSE ASCII formats. UFF data formats for both PC and UNIX®-based platforms are supported.

### Geometry Model

Measurements can be made over a model consisting of planar surfaces, meaning that it can contain measurements on surfaces representing a box. Each surface can contain areas representing sub-surfaces of special interest.

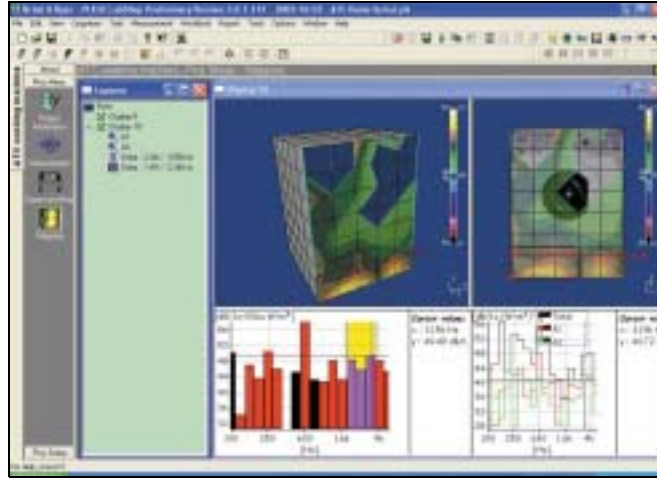
### Explorer

Using the Explorer Window, it is possible to create, view and toggle between multiple 2D and 3D displays for comprehensive mapping during measurements. From a single root object, you can create displays of single or multiple planar surfaces, add sound power areas and define Main and/or Delta cursor positions on the colour-contour map and corresponding spectra.

### Displays

The software displays a colour-contour map of each planar surface, illustrating where noise sources and sinks are present. Displays of related intensity spectra and sound-power spectra for areas are fully synchronised with the colour-contour map. The mapping displays' properties can be altered for ease of use.

**Fig. 2**  
*Contour plot with  
related intensity  
spectrum and  
sound-power spec-  
trum for a woofer*



In the intensity spectra, you can choose to map specific frequencies or frequency bands, and display the related sound-power in the band in relation to the total power.

### **Sound Power**

For multiple, planar surfaces, the software calculates the total sound power for all surfaces as well as the partial sound power for each surface or named area. Multiple surfaces or named areas can be displayed in the sound-power spectra.

### **Documentation of Results**

You can print a copy of the screen to a printer or use the copy/paste function to copy a bitmap or text data for further documentation in, for example, Microsoft® Word.

# Specifications – Noise Source Identification Type 7752

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## System Requirements

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### PC HARDWARE

1.2 GHz Pentium® III with 512 MB RAM (minimum)  
Display resolution min. 1024 × 760  
Display colours min. 256  
Colour printer recommended

### SOFTWARE

Microsoft® Windows® 2000 or XP  
Microsoft® Office 2000 or XP

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## Software

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### DATA

- Maps any data (e.g., intensity) as measured by PULSE ATC
- Universal files (.UFF data set 58), e.g., PULSE multispectra
- 1/nth octave, FFT or synthesised any spectra

### DOCUMENTATION OF RESULTS

- Hard copy of display

- On-line (copy/paste of Bitmap) or text
- Includes product and project condition details

### DATA INTERPOLATION

- Cubic
- Spline
- Linear
- Nearest

### MODEL

- Multiple planar surfaces
- Definition of user-selectable areas to represent sub-sources

### SOUND POWER

- Total model
- Individual surfaces
- User-selectable areas

### DISPLAYS

- Colour-contour map
- 2D and 3D mapping
- Spectral sound power
- Fully synchronised displays

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## Ordering Information

7752 Noise Source Identification

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### Optional Recommended PULSE System

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Type 3560 C	Portable PULSE Multi-analyzer System
including	
Type 2827	Portable Data Acquisition Unit
Type 7700-X4 <sup>1</sup>	Noise and Vibration Analysis, 4-channel License
Type 7761	Acoustic Test Consultant
Type 7759	Advanced Intensity Analysis
Type 7533	10 Mbit Lan Interface Module
Type 3032 A	6/1-channel Input/Output Module
Type 3109	4/2-channel Input/Output Module
Type 3599	Intensity Probe

1. 'X' indicates the license model, either: node locked (N) or floating (F).

### Trademarks

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Pentium is a registered trademark of Intel Corporation or its subsidiaries in the United States and/or other countries  
UNIX is a registered trademark in the United States and other countries licensed exclusively through X/Open Company Ltd.

Type 3541 Sound Intensity Calibrator

### Services

3560-SI1	Installation and Configuration (at Brüel & Kjær)
M1-7700-X4 <sup>1</sup>	Software Maintenance and Support Agreement
M1-7752-X <sup>1</sup>	Noise Source Identification Software Maintenance and Support Agreement
M1-7761-X <sup>1</sup>	Acoustic Test Consultant Software Maintenance and Support Agreement

### ACCESSORIES FOR OPTIONAL SYSTEM

BZ 5372-xx*	Microsoft® Windows® 2000 without manuals
BZ 5373-xx*	Microsoft® Windows® 2000 with manuals
BZ 5321-xx*	Microsoft® Office 2000 Professional Edition
UL 0208-xx*	Microsoft® Office XP Small Business Edition
UL 0209-xx*	Microsoft® Office XP Standard Edition with manuals
UL 0207-xx*	Microsoft® Office XP Professional Edition

\*xx specifies country: GB, DE, FR, ES, IT, SE

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Brüel & Kjær reserves the right to change specifications and accessories without notice