SOUND QUALITY

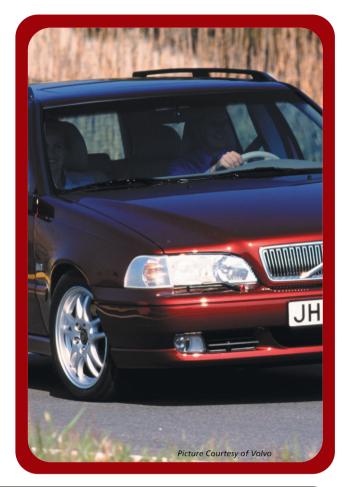
Optimisation of Sound Quality has become an increasingly important activity in the design and development of all products that emit noise, for example, automobiles, trains, airplanes and all kinds of household appliances.

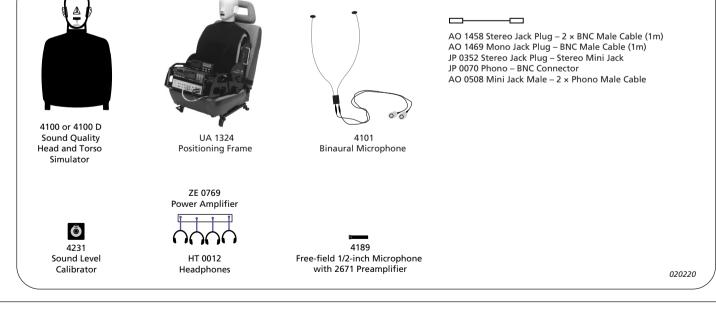
There are two distinct reasons for optimising sound quality - firstly, to optimise the sound to satisfy the specific customer group; secondly, to increase the product's competitiveness and sales. Most products include a variety of individual components from different sub-suppliers. These must satisfy quality requirements including those for sound performance.

The optimisation process involves the following steps:

- Recording of sounds on site, e.g., in a car on a test track using a Head and Torso Simulator
- Analysing the sounds in a laboratory using both traditional methods and specific objective metrics such as Zwicker Loudness
- Simulating changes in the sounds using a number of edits
- Preparing and conducting subjective listening tests
- Creating product-specific Combination Metrics to cut development time and cost

Brüel & Kjær offers complete systems from the simplest to the most advanced





SOFTWARE OPTIONS Zwicker Loudness Option BZ 5265 Order Analysis Option Psychoacoustic Test Bench B7 5277 BZ 5301 MICROPHONES AND HATS **4189-L-021** Free-field ½-inch Microphone with 2671 Preamplifier

4100/4100 D Head and Torso Simulator Binaural Microphone 4101 UA 1324 Positioning Frame CALIBRATORS Sound Level Calibrator 4231

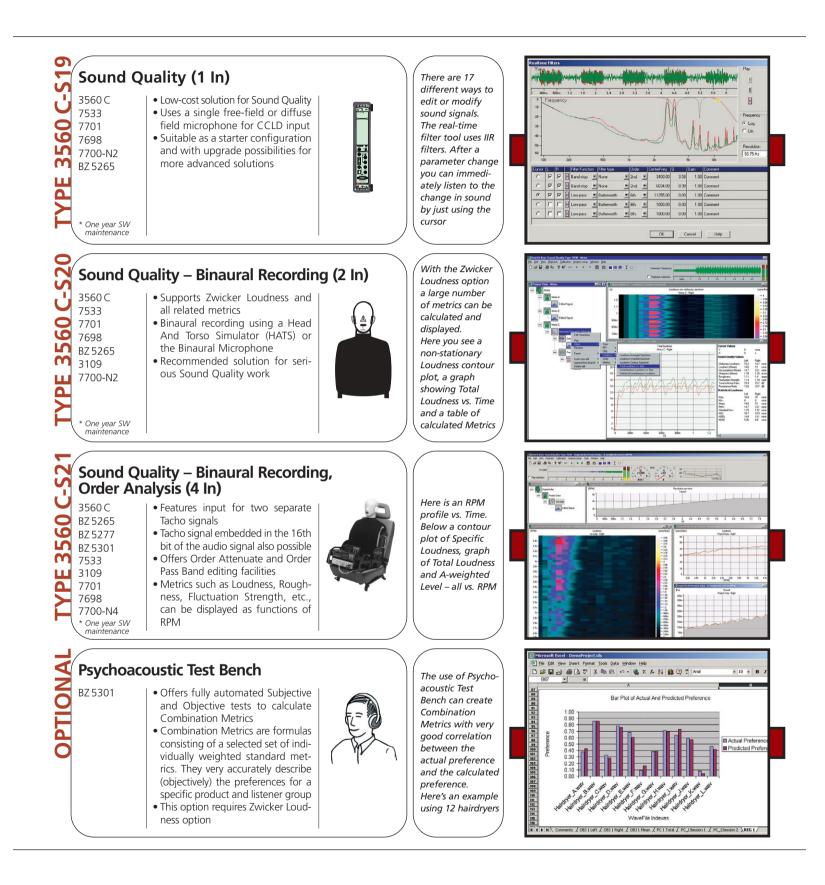
PLAYBACK SYSTEM Power Amplifier ZE 0769 HT 0012 Headphone ZE 0770-A Sound Card CABLES AO 1458 Stereo Jack Plug – 2 × BNC Male Cable (1 m)

Mono Jack Plug – BNC Male AO 1469 Cable (1 m) JP 0352 JP 0070 AO 0508

Stereo Jack Plug – Stereo Mini Jack Phono – BNC Connector Mini Jack Male – 2 × Phono Male Cable AO 0508



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PULSE – Sound Quality