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Sound Viewer Advanced Module

Part No.	Software Functionalities	Hardware
1. Sound Viewer Base Modul 2. Vibro-Acoustic Analyses Module 3. Sound Transmission Paths Analyses Module	In addition to the functionalities of Sound Viewer Base Module, Sound Viewer Advanced Module is: <ol style="list-style-type: none"> 1. Capable of reconstructing the normal surface velocity distributions on an arbitrarily shaped source surface measurable by a laser vibrometer or a plurality of accelerometers¹ 2. Capable of reconstructing ODS at user-defined frequencies or frequency ranges on the surface of arbitrarily shaped geometry.² 3. Capable of determining the natural modes of an arbitrarily shaped source surface subject to any boundary condition³ 4. Capable of determining the dimensionless structural damping ratio of an arbitrarily shaped structure subject to arbitrary boundary condition³ 5. Capable of displaying the flow of the acoustic energies from an arbitrarily shaped source surface² 	<ol style="list-style-type: none"> 1. One 3D Six-Channel Microphone Array 2. One 8-channel simultaneous data acquisition system, 24-bit, 100 kHz sampling frequency, six channels for six microphones, two channels for reference signals 3. Six ½” prepolarized free-field condenser microphone, with 50 mV/Pa (+/-1.5 dB) sensitivity over 3.15 Hz - 20 kHz (+/-2 dB) range, and ½” ICP® preamplifier (426E01) and TEDS 4. Six low-noise coaxial cable, blue TFE jacket, 10-ft, SMB female to BNC plugs 5. One Power Cord, AC, U.S., 120 VAC, 2.3 meters

¹ Provided that a laser vibrometer is available. For cases in which a laser vibrometer is not applicable, for example, when the foundation on which a laser vibrometer is mounted is vibrating, the normal surface velocities can be measured by using a plurality of accelerometers. These accelerometers and laser vibrometer are not included in the Sound Viewer Advanced Module package.

² Provided that the 3D model of the structure is available. This 3D model can be generated by CAD or using a 3D scanner, which are not included in the Sound Viewer Advanced Module package.

³ Provided that the excitation power is given.

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	<ul style="list-style-type: none"> 6. Capable of performing STL (Sound Transmission Loss) measurements through an arbitrarily shaped source surface³ 7. Capable of visualizing the precise sound transmission paths through an arbitrarily shaped source surface² 8. Capable of determining the Sound Power Levels, namely, the source strengths of individual sound transmission paths, and performing sources ranking of these sound transmission paths 9. Capable of analyzing correlations between structural vibrations and acoustic radiation and determining the critical components that are responsible for sound radiation 10. Capable of providing the most cost-effective noise mitigation strategy based on the insight gained in functionalities 1 through 9. 	<ul style="list-style-type: none"> 6. One GERI Mini Face Detection Security USB Camera, with 1600 × 1200 pixels 7. One Bouch 62-inch Professional Digital Camera tripod 8. One professional carrying case
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