



SeeSV-S206

SMi SM Instruments Inc.

20, Yuseong-daero 1184beon-gil, Yuseong-gu,
Daejeon 34109, South Korea
Tel : +82-42-861-7004 Fax : +82-42-861-7008
Email : sales@smins.co.kr Web: www.smins.co.kr

SeeSV[®]

Portable Sound Camera *mini*
SeeSV-S206



SMi SM Instruments Inc.

Now See Your Sound and Vibration!

SeeSV-S206

Portable Sound Camera *mini*

SeeSV-S206 is a real-time sound camera that implements FPGA-based high-speed beamforming technology. It was developed for the detection of highly transient noise sources, and also performs superbly on stationary noise sources. It is capable of capturing 25 images per second. Highly sensitive microphones immediately detect small annoying sounds. Its major application is for the detection of Buzz, Squeak, and Rattle (BSR) noise sources as well as the visualization of Noise, Vibration, and Harshness (NVH) sources. The unique design of SeeSV-S206 makes easier and more accurate measurements of sounds.



Features

Hardware

- Unique, Innovative Design
- 96ch Digital MEMS Microphones
- High Resolution Optical Camera
- High Speed Processing based on FPGA
- Easy Connection based on Wireless Network

Software

- Real-Time Sound Imaging
- High Speed Image Update, 25 FPS
- Optimized for BSR Detection
- Background Noise Removal (Noise Gate)
- Selective Listening for Noise Source
- Effective Post Processing
- FFT and Octave Analysis
- Mobile function through Web Service



High Performance Compact Design

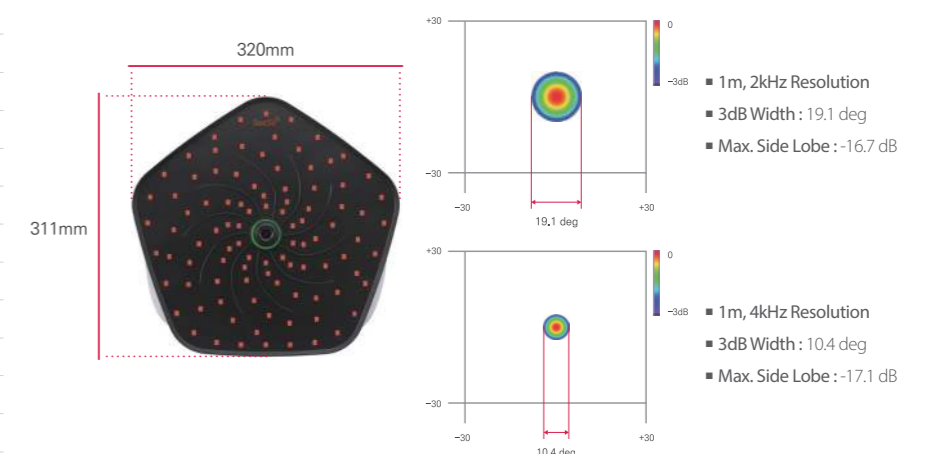
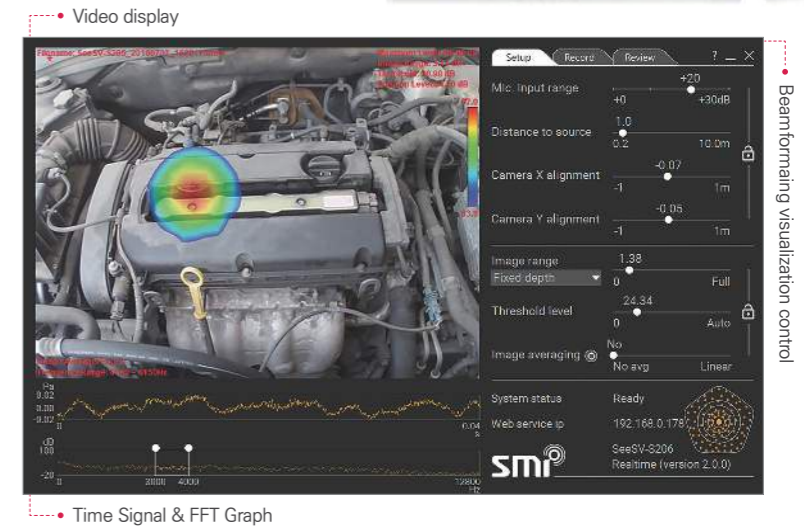
SeeSV-S206 employs more MEMS microphones than its previous model, SeeSV-S205, resulting in an improved signal-to-noise ratio. The new sound camera's portability has been improved with a 16% reduction in size.

The newly developed software combined with a tablet PC provides a touch-based user experience which further improves the ease-of-use.

SeeSV-S206 software provides an accumulation function and a noise source selective listening function.

Specifications

| SeeSV-S206 | |
|-----------------------------|------------------------------|
| Microphone | 96 Ch Digital MEMS |
| Microphone Sensitivity | -26 dBFS |
| Signal to Noise Ratio | 64 dB(A) |
| Acoustic Overload Point | 122.5 dB |
| Noise Floor | 30 dB(A) |
| Sampling Rate | 25.6 kS/s |
| Measurement Frequency Range | 25 Hz ~ 12.8 kHz |
| Beamforming Frequency Range | 2 kHz ~ 10 kHz |
| Camera Frame Rate | 25 FPS |
| Camera Angle | 66° (Horizontal) / 4:3 ratio |
| Communication Interface | Ethernet / Wi-Fi |
| Min. Measurement Distance | 0.2 m |
| Weight | 2.0 kg |



Portable Sound Camera Applications

- BSR Noise Detection
- Noise Leakage Detection
- Noise Evaluation and Quality Improvement

