SeeSV

Portable Sound Camera *mini*
SeeSV–S206

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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

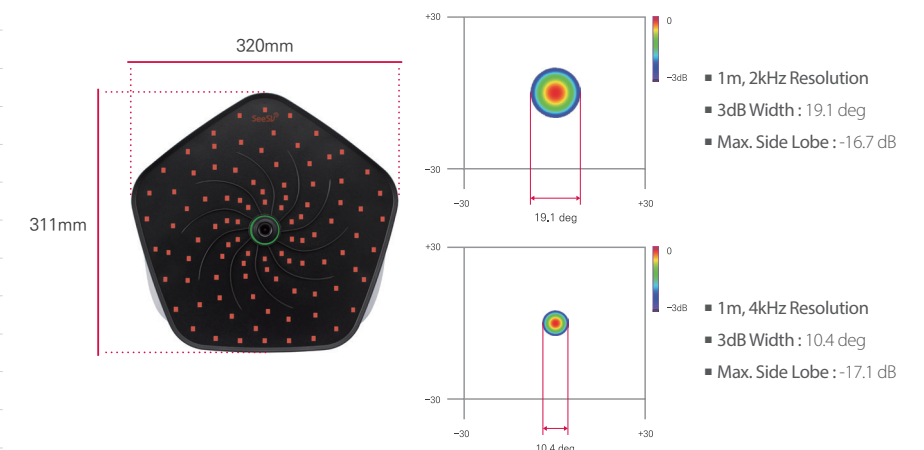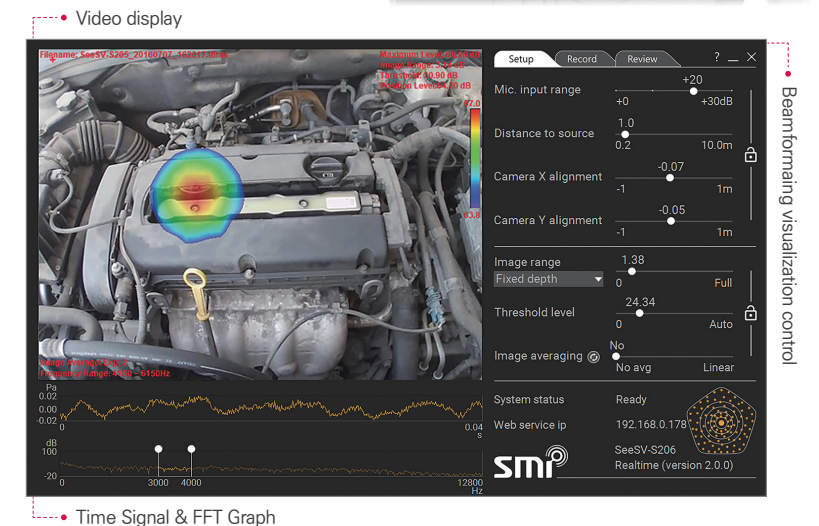# High Performance Compact Design

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.

- Video display
- Beamforming visualization control
- Time Signal & FFT Graph

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

320mm
311mm

- 1m, 2kHz Resolution
- 3dB Width : 19.1 deg
- Max. Side Lobe : -16.7 dB

19.1 deg

- 1m, 4kHz Resolution
- 3dB Width : 10.4 deg
- Max. Side Lobe : -17.1 dB

10.4 deg

Portable Sound Camera Applications

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

Engine Noise | B-pillar Noise | Air Conditioner Noise | Drone Propeller Noise