

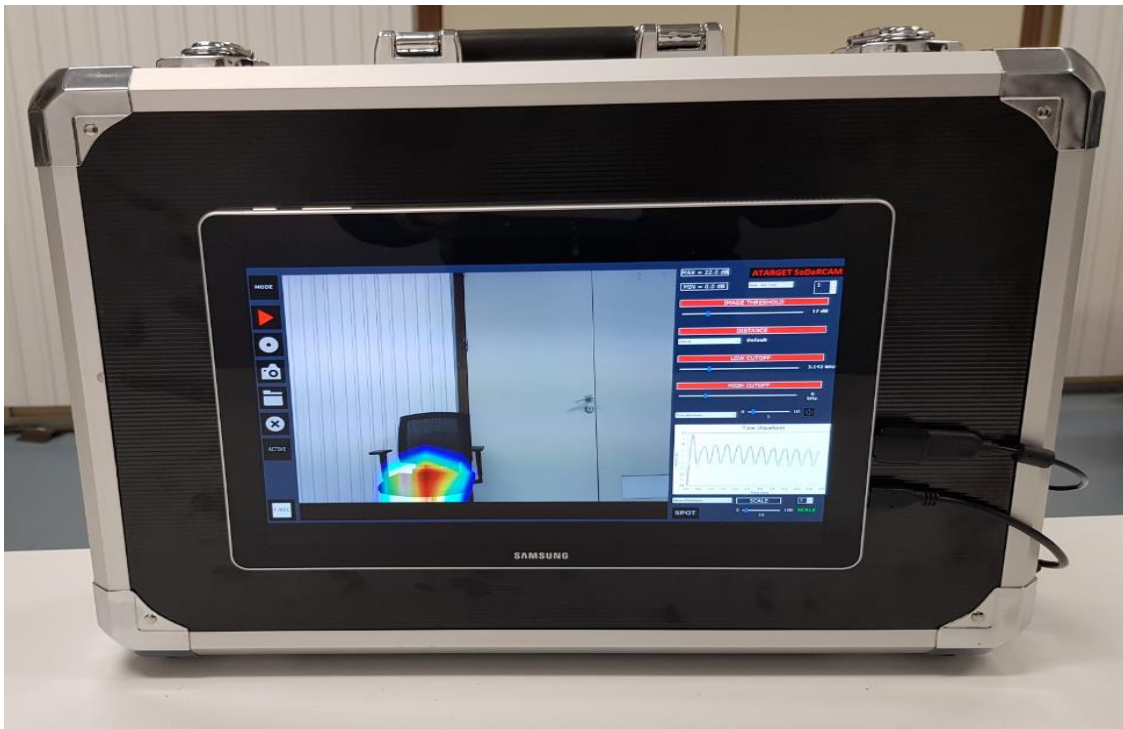
ATARGET SoDaRCAM Sound Camera

HIGH RESOLUTION SOUND CAMERA SYSTEM : COMPACT PORTABLE SOLUTION

ATARGET has developed both hardware and software solutions for Sound Detection and Ranging Camera (SoDaRCAM) using FPGA technology. This solution provides a proven technology with powerful embedded processing resources allowing the implementation of complex engineering solutions. SoDaRCAM is a versatile device which localizes the sound sources on live video. The system employs digital mems microphones to acquire sound waveforms. The real-time sound video is overlaid with the camera output for the identification of sound sources based on range and angle.



USER FRIENDLY GUI and MANUAL



SoDaRCAM is easy to use thanks to its simple user interface. The gadgets on the interface allow the user to see a variety of features that belong to the localized sound sources. Video and sound can be stored and played back easily. Snapshots can be taken from the video at any time. Signal time and spectrum can be observed to identify the features of sound sources. Dynamic filtering on hardware is used to change the filter characteristics in real-time. Input beamformed image can be processed by thresholding. Image scale can be manipulated to better localize the sources.

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COMPLETE SOFTWARE SOLUTION

ATARGET Sound Camera software is seamlessly integrated with FPGA and can be operated easily from its GUI. The software is developed in order to obtain a high performance and low latency real-time system. The time and frequency characteristics of sound signals can be observed real-time. Users can choose the points on video to observe and characterize the incoming signals from a particular direction.

FEATURES

- *High Sensitivity Digital MEMS Microphone Array
- *Real-Time Sound Video
- *Sound Radar Mode
- *Robust Beamforming Mode
- *Full Channel Recording and Offline Processing
- *Real-Time Frequency and Distance Adjustment
- *Real-Time Digital Filtering
- *18 FPS Image Update
- *Handheld
- *Mobile

HARDWARE

- A. Physical Properties & Display
 - Dimensions : 40 x 50 x 15 cm
 - Display Size : 12 inch
 - Display_Resolution:HD
- B. Interfaces
 - USB
 - Ethernet
 - Audio
- C. Sensors
 - Microphones : 44 Digital MEMS
 - Frequency Range : 45 - 20kHz
 - Sound Pressure : max. 130 dB
 - Sample Rate/Resolution: 48kHz/20 bit
- D. Optical Camera
 - Resolution : 1 MP
- E. Power
 - Battery : Li-ion Battery

SOFTWARE

- A. Features
 - View Video and Picture Results
 - Save and Reload
 - Replay
- B. Export
 - AVI (video)
 - Binary (sound)
- C. Settings
 - Distance
 - Frequency
 - Dynamic Scale
 - Visual Modes
 - Radar Mode
 - Robust Beamforming Mode



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