

As there are various difficulties associated with auscultation techniques, we have devised a technique for visualizing heart motion to assist in the understanding of heartbeat for both doctors and patients. The technique based on the measurement of chest vibration using 64 sensors as a multiple-auscultator to show global and simultaneous heart motions. A new mount plate with 64-sensor was developed to install the chest quickly. As a result, the total time of the measurement was five minutes approximately, which allows to clinical use easily. To overcome difficulties in auscultation technique, the technique can be applied to the detection of heart disease in visual and to the digital database management of the auscultation examination.