Ultrasound  
   
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Ultrasound is sound with frequencies greater than 20 kilohertz. This frequency is the approximate  
upper audible limit of human hearing in healthy young adults. The physical principles of acoustic waves  
apply to any frequency range, including ultrasound. Ultrasonic devices operate with frequencies from  
20 kHz up to several gigahertz. Ultrasound is used in many different fields. Ultrasonic devices are used  
to detect objects and measure distances. Ultrasound imaging or sonog

## Wikipedia Excerpt: Image processing

Digital image processing is the use of a digital computer to process digital images through an algorithm. As a subcategory or field of digital signal processing, digital image processing has many advantages over analog image processing. It allows a much wider range of algorithms to be applied to the input data and can avoid problems such as the build-up of noise and distortion during processing. Since images are defined over two dimensions (perhaps more), digital image processing may be modeled in the form of multidimensional systems. The generation and development of digital image processing are mainly affected by three factors: first, the development of computers; second, the development of mathematics (especially the creation and improvement of discrete mathematics theory); and third, the demand for a wide range of applications in environment, agriculture, military, industry and medical science has increased.