

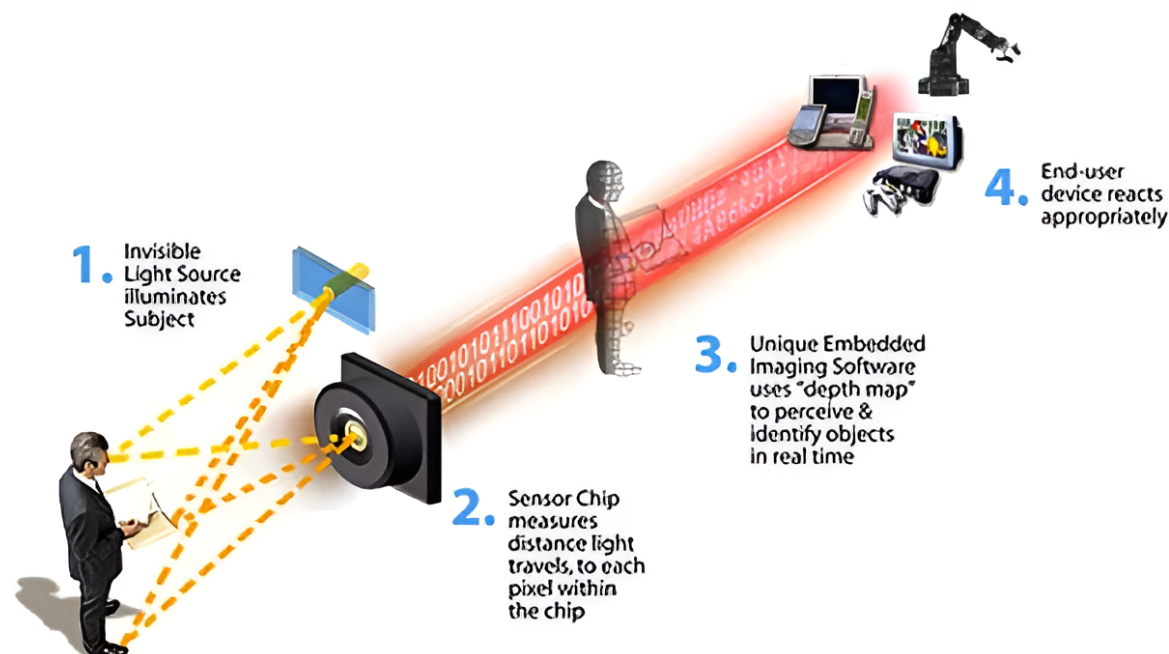
“Thermo Drone”

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Functioning

- The Thermal module detects the heat of the body and its distance from the module
- It has been programmed in such a way that it detects the heat emitted by the human body. But, it can also be used to detect fire, other animals, etc.



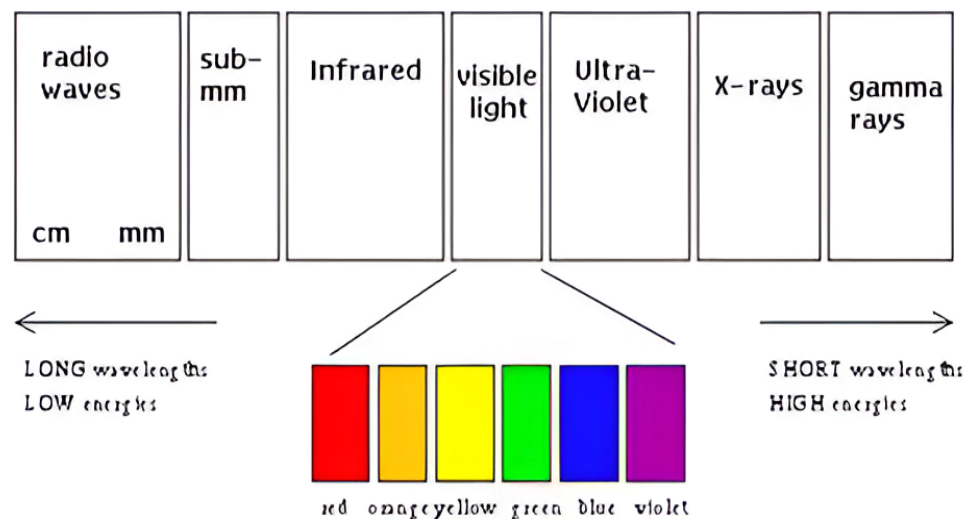
Applications

This technology has various applications, such as:

Disaster Control, Navigation and Exploration, Surveillance, Agriculture and Phenotyping, Photovoltaic plants, Fire detection and firefighting, Search and Rescue, etc

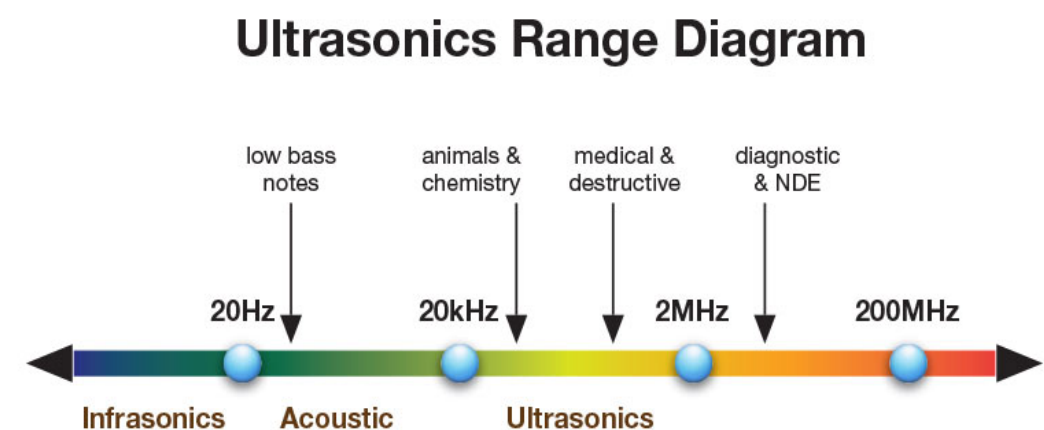


Infrared Sensors



- The light having a longer wavelength and lesser energy than red light in the electromagnetic spectrum is called Infrared light.
- It is not visible to the naked eye.
- All bodies emit heat and this heat can be observed by detecting the IR radiations being emitted.

Ultrasonic Sensors



- An Ultrasonic [sounds > 20kHz] sensor works by emitting ultrasonic sound waves.
- If there is an obstacle in the way, the wave will be deflected and will bound back.
- By observing the time taken for the wave to return, we can calculate the distance between the object and the sensor.