

DN radar life detector is high-tech survival equipment which combined Micro-power ultra-wideband radar technology and Biomedical Engineering Technology. Its working band is 100~ 600MHz.

The product is composed of two parts: a host and a PDA. The HOST transmits and receives electromagnetic waves and detects the echo signal. PDA is responsible for the operation of the terminal monitoring software. Communication and data transmission between HOST and PDA is achieved by WIFI.

The HOST includes 7 modules: transmitting antenna, receiving antenna, transmitters, receivers, data processing board (DSP), data acquisition board (AD), CPU .

The working process: the CPU controls the DSP, and generate timing signal to monitor transmitter to transmit Electromagnetic signals. Transmitting antenna radiates to the designated area. Echo signal is generated when Electromagnetic signals encountered target and then received by receiving antenna. Echo signals received by the antenna come into the receiver and transformed to digital signal by the data acquisition module (AD). Digital signal came into DSP, and DSP adopted relevant vital signs and the location algorithm through the echo information try to tell the vital signs in the designated area, then delivered the result to CPU and CPU visualized the result finally. WIFI and CPU

communicated to help the data and Control instructions transfer between HOST and PDA, and the operator could Wireless Switch the radar working mode and real-time monitor it.