

# *MiniSun – IDEEA Information*

## **Major IDEEA Functions**

- Records postures and body movement in free-living conditions every second for more than 24 hours resulting in tens of millions of data points for future analysis.
- Identifies with an accuracy rate of 95% or higher, more than 35 types of activities and postures including:
  - Walking - 99.5%
  - Running - 99%
  - Stairs - 98%
- Provides reliable recordings of the onset, duration, and frequency of identified activities.
- Categorizes and analyzes the distribution of activities, and provides tools to plays back activities at various speeds for any selected time period.
- Computes the amount and intensity of activities using state of the art techniques such as artificial intelligence and neural-networking, providing an accuracy rate of 95% or higher.
- Calculates cumulative and instantaneous power, mechanical work, and energy expenditure for any selected time period with 95% or higher accuracy rate. These data are critical for weight control and obesity treatment, for fitness and wellness programs, and for rehabilitation and function evaluation.
- Results were calibrated by the most accurate whole-room calorimeter and precision platform existing, and clinically tested on hundreds of volunteers and patients during thousands of test hours.

*IDEEA "combines the most advanced microcomputer technology, biomedical sensor designs, data compression, and online data processing and analysis. It will be the first system of its kind to have such accuracy, flexibility, and portability for the scientific research community as well as for the general public in the near future."*

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