

# *MiniSun* – Company Information

## **Profile**

MiniSun recently made a breakthrough in the measurement of physical activity and energy expenditure. It has developed a portable device, **Intelligent Device for Energy Expenditure and Activity (IDEEA)**, that has superior versatility and accuracy over any existing device available on the market today.

IDEEA functions include:

- Records postures and body movement in free-living conditions
- Identifies more than 35 types of activities and postures
- Identifies the onset, duration, and frequency of identified activities
- Categorizes and analyzes the distribution of activities
- Plays back activities at various speeds for any selected time period
- Computes the amount and intensity of activities
- Calculates power, mechanical work, and energy expenditure for any selected time period
- Results were calibrated and clinically tested

IDEEA is focused on the diagnosis of diseases related to fitness/wellness, mobility, and physical activity/exercise. Applications include obesity, orthopedic surgery, rehabilitation, attention deficit hyperactive disorders, multiple sclerosis, and osteoporosis.

Since mobility, physical activity, and exercise are such fundamental parts of human life and since there is no similar device that can perform these functions, MiniSun believes that IDEEA will provide invaluable scientific and diagnostic information and guidance to healthcare professionals, patients, and persons interested in physical performance.

## **MiniSun Mission Statement**

To develop and bring to the health care market breakthrough technological products in the area of micro-electronic medical devices.

## **About Dr. Ming Sun**

Dr. Sun is an accomplished research scientist who has been studying human physical activity and energy metabolism for many years. He is an expert in developing intelligent medical devices for the quantification and analysis of physical activity and related energy expenditure.

Dr. Sun holds a BS in Electrical Engineering and a MS in Biomedical Engineering. He graduated Summa Cum Laude with a Ph.D. in Biomedical Engineering from Vanderbilt University in 1990 after he finished his M.D. course work from Shanghai No.2 Medical University, China. He had been a Research Associate Professor at Vanderbilt and

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conducted a number of major research projects sponsored by National Institute of Health before starting MiniSun.

Dr. Sun had been the director of several research and development groups over the last 7 years. These include: Director of Energy Balance Lab, Clinic Nutrition Research Unit; and Director of Metabolic Core, Clinical Research Center, Vanderbilt University.

Dr. Sun has had more than 30 peer-reviewed publications in a number of journals. His years of research and development of intelligent medical devices culminated in his development of IDEEA.

### **Contact Information**

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