



# INTOUCH TECHNOLOGIES™

extending your reach

## The Company

InTouch Technologies (dba InTouch Health®) is a medical robotics technology company based in Santa Barbara, California. The Company (founded in January 2002) develops, manufactures and markets Remote Presence (RP) systems and solutions. It is pioneering Remote Presence in healthcare to improve patient care and safety, and improve physician efficiency, while increasing hospital patient throughput and economics.

InTouch Health is a privately held company backed by top-tier venture capital firms.

## The Founder

In 1989, Dr. Wang founded Computer Motion, the company which pioneered surgical robotics. He was the principal architect and inventor of the voice-controlled robotic arm called AESOP, the 1st FDA-cleared surgical robot, as well as the ZEUS robotic surgical system, which performed the world's first transatlantic surgery. Computer Motion went public in 1997, and merged with Intuitive Surgical in 2003 for one third of the resulting company. In 2002, Dr. Wang founded InTouch Health. In September 2000, the National Academy of Engineers selected Dr. Wang as one of the nation's top young engineers to participate in the Frontiers of Engineering program. Dr. Wang was further honored in June 2005 when Ernst & Young named him Finalist for their Entrepreneur of the Year award. He has more than 40 publications and 50 patents in the areas of robotics and computers. Frequently invited to speak at noteworthy meetings and events, he has appeared on the Today Show, CNN and various other televised interviews. Dr. Wang has a Ph.D. in Electrical Engineering specializing in Robotics from the University of California at Santa Barbara.

## The Product and How it Works

The RP-7® is a wireless, mobile, Remote Presence Robot that lets a physician "be in two places at once." Remote Presence is the ability to project yourself to another location and to move, see, hear and talk as though you were actually there. A Remote Presence Robotic System is comprised of one or more ControlStations™ and RP-7 Robots which are connected through a combination of secure internet and wireless technologies. Under the direct control of a remote physician seated at a ControlStation, the RP-7 can move untethered allowing the physician to freely interact with patients, family members and hospital staff from anywhere, anytime.

Remote Presence technology enables a physician to perform many key activities when it is not possible to be physically at the patient bedside. Through the ControlStation, he or she can discuss a patient's status at the nurses' station, drive into the patient room, observe patient behavior, check bedside monitors and ventilator settings, discuss care with the patient and/or family members, and return to the nurses' station to give orders or discuss next steps.

The RP system can improve the quality of care and patient safety by allowing the physician expert to be more available at the time of need. Using Remote Presence doctors can decrease complications for patients in areas of high acuity like the critical care unit, as well as aid in time sensitive treatment decisions for emergencies such as stroke care.

## **Proven Applications using the RP-7 Remote Presence System**

Around 200 RP systems are currently being used in over eighty hospitals around the United States and around the world, including UCLA Medical Center, Johns Hopkins Medical Center, Saint Joseph Mercy Oakland Hospital and Hackensack University Medical Center. With remote expertise available at a moment's notice, the RP system enables improved patient safety and quality of care, and increased hospital throughput.

Key applications of the RP System include neuro-stroke care, ICU patient management, emergency care, multi-specialty outreach, hospital capacity management and surgical training.

### **TeleStroke Networks**

A major challenge confronting stroke care is the short time window available for interventional treatment. Remote Presence helps eliminate this barrier by accelerating access to stroke experts through a collaborative "hub and spoke" network of hospitals. Stroke experts from a primary or comprehensive stroke center can use Remote Presence to provide consults to other hospitals.

### **Critical Care Coverage**

ICU morbidity, mortality, LOS and costs are greatly reduced when critical care is led by a board certified intensivist. Since most hospitals cannot attract enough intensivists to staff their ICU's, Remote Presence is a viable extender of intensivist ICU presence. Academic, community, rural and critical access hospitals have implemented Remote Presence solutions to achieve improved clinical and financial outcomes.

### **Multi-Specialty Outreach**

Tertiary centers deploy Remote Presence networks to extend physician expertise (cardiology, pediatrics, neonatology, neurosciences, trauma, general surgery and other disciplines) for ED call panel coverage and care management in surrounding hospitals. This can optimize patient transfers, improve ED throughput and redefine regionalized healthcare delivery.

### **Hospital Capacity Management**

Physicians typically round on their hospitalized patients once daily. Through Remote Presence, doctors can perform night and weekend rounds from the home, clinic or office. These consults have resulted in improved patient and family satisfaction, and are an effective tool to advance the care management process resulting in earlier patient discharges.

### **Specialty Training & Collaboration**

Expert physician training and collaboration in new or complex procedures can be enabled with Remote Presence. Special lectures featuring live surgery, procedure techniques and best practices can be shared.