

## OEM Case Studies

# SUNTECH

**Bionet**



### **Bionet BM5 - Clinical Application: Patient Monitoring**

**Customer:** Bionet is a successful Korean developer and manufacturer of medical devices from patient monitors to ECG machines.

**Story:** Looking for a proven, reliable blood pressure monitoring technology providing good value for performance and customer support, Bionet partnered with SunTech for their line of patient monitors.

**Success:** As agile companies atuned to the market's needs, Bionet and SunTech were able to complete the integration and addition of blood pressure in less than a year. Along with clinical-grade non-invasive BP, the BM5, an enhanced and extendable multi-parameter monitor, also measures ECG, SpO<sub>2</sub>, Respiration, Invasive BP, and Temperature.

**GAMBRO**



### **Gambro AK 96 - Clinical Application: Hemodialysis**

**Customer:** Gambro leads the market in renal care development and has brought many groundbreaking innovations to the market.

**Story:** Gambro Lundia, a division in Sweden, partnered with SunTech to not only integrate automated BP into its dialysis systems but also to improve the reliability and accuracy of its measurement. SunTech worked with one of Gambro Lundia's customers, a hemodialysis clinic in New Brunswick, Canada, in order to further develop and validate the BP measurement performance and safety on end-stage renal disease patients.

**Success:** Despite the significant challenge of dealing with the hemodynamic changes associated with dialysis, a specialized, high-performance algorithm was developed and validated to the highest standards of the British Hypertension Society (BHS) with an A/A grade. Gambro has continued to use SunTech OEM modules in next generation hemodialysis machines including the Artis Dialysis System.

**corpuls**



### **G Stemple Corpuls3 - Clinical Application: Emergency Medical Services**

**Customer:** G Stemple develops and manufactures innovative high-end medical devices for emergency medical services and intensive care under the brand corpuls.

**Story:** The corpuls defibrillator relies on AdvantageTMT, SunTech's Transport Motion Tolerance technology, for reliable and accurate BP measurement in high acuity, high pressure situations which is the case during emergency transport and military applications.

**Success:** SunTech was able to provide a high performance, very low profile NIBP module tailored specifically to the design requirements of Corpuls' line of defibrillators. Customizations reduced size, weight and added performance features not offered in module configurations from other NIBP suppliers.

**smiths medical**

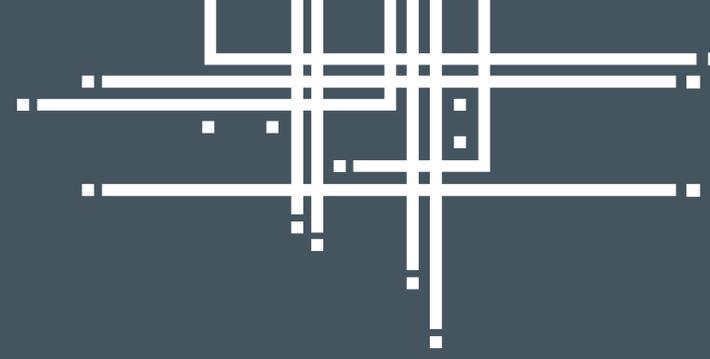


### **SurgiVet Advisor- Clinical Application: Veterinary**

**Customer:** Under the Surgi Vet@brand, Smiths Medical provides a line of veterinary medical products that are recognized globally for their contributions in enhancing animal medicine including the Advisor multiparameter patient monitor.

**Story:** Even though there are no formal Regulatory requirements for NIBP in the veterinary market, Suntech recognized there was a need for accurate and reliable blood pressure measurements and developed a vet-specific BP algorithm. A clinical trial comparison was performed at North Carolina State University College of Veterinary Medicine against other competitive oscillometric BP monitors and results showed SunTech's VET NIBP technology was more accurate, less variable and had more successful measurements than Cardell and Dinamap.

**Success:** Smiths Medical chose SunTech because they wanted NIBP in their Advisor monitor that performed better than the rest and SunTech delivered. Today, the Advisor is considered one of the best surgical vital sign monitors in the VET industry.



## Building Partnerships that Last

For thirty years, SunTech Medical® has been the preeminent supplier of clinical grade blood pressure monitoring products and technologies. Over 80 companies trust SunTech Medical's OEM non-invasive blood pressure solutions for their patient monitoring needs.

Headquartered in the United States, in North Carolina's Research Triangle Park, we are globally focused on the continual advancement of blood pressure monitoring products and technologies for the benefit of our customers, patients, employees and shareholders.

# SUNTECH

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# SUNTECH



## Our Partners in Blood Pressure Innovation



3F Medical System has been developing patient monitors for over 10 years providing quality products for the pre-hospital and in-hospital areas including Emergency, ICU, Operating Room, Ward and Cardiovascular sections. Their Iris Vital Signs Monitor utilizing SunTech's Advantage® NIBP module provides complete patient monitoring solutions for pre-hospital emergency transport services.



Adflow has been a strong force in the digital signage market and has entered the medical device arena with their Personal Health Center which is a multifunction biometric screening kiosk and consumer health engagement platform that includes SunTech non-invasive blood pressure as well as heart rate, body weight, BMI and body composition.



Remotely connecting patients and healthcare providers without sacrificing personal care. Dictum Health is pioneering a new generation of telehealth using an unprecedented level of integrated devices and software.



Labtech Ltd. is an innovating, 100% Hungarian owned company established in 1990, dealing with developing and manufacturing PC-based ECG Systems.



Working closely with medical personnel and MRI manufacturers, MIPM develops innovative MRI compatible solutions. The Tesla NIBP uses SunTech's Advantage SMT (Standard Motion Tolerant) technology in advancing patient monitoring beyond the bedside.



MGC Diagnostics is a global medical technology company dedicated to cardiorespiratory health solutions. MGC's simple approach has endured through integration of products that are unparalleled in quality, accuracy, and ease of use. As the global leader in NIBP Stress Testing, SunTech is proud to partner with MGC Diagnostics.



Based in India, Allengers is a leading medical device manufacturer covering a wide spectrum of diagnostic range of medical equipment for the fields of Radiology, Cardiology, Orthopaedics, Gastroenterology, Neurology and Urology. They provide non-invasive BP monitoring in their Libra patient monitors.



AtCor Medical is the global leader in non-invasive central blood pressure and arterial stiffness. Their SphygmoCor EXEL provides central blood pressure as well as augmentation index all through an upperarm blood pressure cuff.



A leading device manufacturer for the veterinary market, Digicare Biomedical utilizes the SunTech VET NIBP technology in their LifeWindow Lite multiparameter patient monitor. It provides the veterinary clinician with connectivity, expandability and functionality like no other veterinary monitor delivers.



Mediana develops and manufactures defibrillators and patient monitoring devices for the most critical medical situations for the global market. In line with the support and expectations of all employees, customers, and investors, Mediana pledges to do their very best to become a sustainable and long-lasting company by adhering to ethical and responsible management principals.



SunTech has been working with NASA since 1986 as our technology has been proven to meet extremely strict space travel requirements. Both finished devices as well as OEM modules from SunTech are in use today on the International Space Station.



Mortara offers a portfolio of innovative diagnostic cardiology products aimed at satisfying unique clinical needs. Technological advances enable high performance & low cost products; Mortara is leading in new ECG product innovations that deliver economic value without performance compromise. As the global leader in NIBP Stress Testing, SunTech is proud to partner with Mortara



As an innovator of wireless trauma care products, Athena GTX needed NIBP capabilities that would endure the rigors of emergency transport while still meeting their design needs for a small, lightweight solution. The Advantage Mini with SunTech Medical's Transport Motion Tolerance technology fit the bill perfectly.



Working all together to heed the needs of patients, constantly researching the most appropriate therapies. Integrating automated BP into its dialysis systems nearly ten years ago, Belco along with SunTech's help has made it a reliable and safe standard of care in dialysis.



Since 1984 DRE Veterinary has been one of the largest and most reliable suppliers of Veterinary and Laboratory research equipment to Universities, Surgery Centers, Research Facilities, and Veterinary Practices around the globe. Throughout the years, DRE Veterinary has implemented SunTech OEM Advantage modules with VET technology in several patient monitors.



Focusing on the cycle ergometer market, Dr. Gerhard Schmidt has created multiple NIBP products utilizing SunTech's Kadenz® OEM NIBP module which is exclusively designed to take auscultatory BP measurements on patients while exercising on cycle ergometers.



Ortivus is a leading supplier of mobile solutions for modern emergency medical care. With 30 years' experience in cardiology and in developing mobile monitoring and communication solutions, Ortivus offers customers reliable, patient-friendly and cost-effective decision support systems that save lives and reduce suffering.



A successful medical device developer and manufacturer in Brazil, Omnimed found SunTech's Advantage blood pressure technology to provide high value in terms of price and performance and thus designed it in their highest quality patient monitors.



When needing OEM NIBP modules that reliably work during emergency transport, Bexen cardio came to SunTech Medical for our proven Transport Motion Tolerant technology which is in their Reanibex 800 multiparameter defibrillator.



Since 1991, CardioTecnica SRL has been dedicated to the design, manufacture and support of medical equipment. In all of our products, we have been ahead of existing technology, compliant with current legislation as it relates to production of medical equipment and quick to provide our customers with after-sales service.



The driving force behind Fukuda Denshi is the desire to remain at the forefront of recent technological trends and to develop products that match the needs of the global market. This drive continues to build a firm foundation in the medical equipment industry. SunTech is proud to partner with Fukuda Denshi.



Outset Medical is changing dialysis – one of the largest, most expensive, and stagnant areas of healthcare. They are focused on creating change, driving widespread adoption of new technology, and delivering on the promise of an improved experience for patients and lower cost of care for healthcare providers.



Philips has market leadership positions in medical diagnostic imaging and patient monitoring. Their HeartStart MRx Monitor/Defibrillator unites Philips industry-leading monitoring technologies with superior diagnostic measurements, one of them SunTech's Advantage Transport Motion Tolerant Technology.



Leaders in telemedicine for aviation, maritime and remote land locations, RDT has excelled in developing robust communications technologies enabling the transmission of medical data, voice and video from remote locations to land based medical experts. Looking for BP technology for their monitor, RDT chose SunTech to meet their high standards for reliability and excellence.



For over 50 years, BPL has been providing medical products to the Indian market and beyond. They are a dominant provider of patient monitors and SunTech partnered with BPL on a custom NIBP design to meet specific needs for their product offerings.



CareFusion is committed to improving the safety of healthcare for generations to come. Their products and services help improve medication and supply management, reduce the risk of infections, advance care of ventilated patients, and turn healthcare data into actionable information. As the global leader in NIBP Stress Testing, SunTech is proud to partner with CareFusion



SunTech is proud to partner with GE Healthcare. GE's cardiology portfolio stretches across a suite of solutions that reflect a commitment to fighting cardiovascular disease. GE Healthcare has brought continued innovation to diagnostic cardiology solutions over the years.



A company from Hungary, Innomed Medical researches, develops, manufactures and sells in the fields of cardiology, intensive therapy, defibrillator technology and digital radiology exporting to more than 100 countries worldwide. With a range of capabilities like this, Innomed relies on SunTech for its NIBP needs.



Rudolf Riester GmbH manufactures and distributes a variety of diagnostic instruments and devices including aneroid and mercury sphygmomanometers. Riester has recently partnered with SunTech to expand their automated NIBP measurement product offering by adding and an automated 24-hour monitor, the ri-cardio ABPM.



Scil Animal Care Company uses SunTech's Advantage VET module to take accurate and reliable BP measurements on animals in vet clinics and hospitals throughout the world. This includes the Scil Vet View V5 multiparameter patient monitor which provides top-end parameters for the surgical environment.



A subsidiary of SonoSite, Cardiodynamics is an innovator in cardiovascular diagnostics with its BioZ® Dx Diagnostic System. Relying on non-invasive BP measurement, the BioZ Dx system uses advanced impedance cardiography (ICG) technology to provide non-invasive hemodynamic parameters for evaluating patient cardiovascular health.



Centron Diagnostics is based in the UK and designs and manufactures central blood pressure products. Their cBP 301 monitor utilizes the SunTech Advantage A+ module for brachial blood pressure measurements as well as SunTech cuffs and NIBP accessories.



Higi is one of our health station kiosk partners that has created a sleek-designed kiosk that provides vital signs in a consumer environment. They chose SunTech to provide NIBP because we have a technology that is designed to take reliable, accurate BP measurements in a high volume location using a single BP cuff.



Manufacturing a broad line of patient monitors and proprietary ECG Trigger monitors, Ivy Biomedical designed SunTech's versatile Advantage OEM module platform in monitors used in operating rooms, post-anesthesia care units, and neonatal and adult intensive care units worldwide.



Seiva's business is direct development, manufacturing and servicing of PC-based cardiology devices. They have partnered with SunTech Medical to bring the Seiva TonoTrack ambulatory blood pressure monitor to their customers.



As a military and emergency transport supplier, Thornhill Research had very tough specifications to meet for NIBP so they came to SunTech. Their MOVES portable ICU is 50% smaller and 60% lighter than standard life support systems and has undergone Airworthiness testing by the US Army.



Pioneering cardiovascular diagnostics, Cheetah Medical has developed a method for non-invasive measurement of cardiac output (CO) dependent on a BP measurement. With their proprietary BIOREACTANCE® technology, their NICOM System guides fluid and drug optimization in acute and ambulatory care settings, including intensive care, emergency, perioperative care and outpatient cardiology.



CU Medical is a high technology Korean medical device company involved in the design, development, manufacture, selling and service of emergency medical devices with the latest IT technology. Given the difficulties of obtaining NIBP measurements in transport vehicles, CU Medical decided to partner with SunTech to obtain NIBP technology that has a proven track record in emergency transport.



Serving markets across the globe, Infinium trusts SunTech for their NIBP needs. SunTech and Infinium have partnered together multiple times as they designed in different Advantage OEM NIBP modules (2.0 and Mini) into several patient monitors.



As the inventors of first electro-magnetic cycle ergometry back in 1952, Lode sets the standard and when automated NIBP became part of that standard, they came to SunTech. Lode has integrated the SunTech Kadenz auscultatory module into an add-on device that can be purchased as an accessory to most of their cycle ergometers.



Sorin Group's success in the global medical device market is built around its cardiovascular products and related therapeutic services. When they needed to expand their portfolio, they turned to SunTech to supply them with Agilis, an ambulatory blood pressure monitoring system.



Zoe Medical designs and manufactures patient monitoring systems. Over the past twenty years, Zoe has developed products for a number of large medical device companies, and has supported their worldwide distribution. For demanding applications such as patient transport in ambulances, Zoe relies on proven motion-tolerant NIBP technology from SunTech.



As a cutting-edge development service provider for cardiovascular innovations and a manufacturer of medical OEM modules, CorScience develops high-quality medical devices. In maintaining this focus, they chose to partner with SunTech whose automated BP solutions are trusted in hospitals and by medical device manufacturers worldwide.



The International Space Station uses the Portable Pulmonary Function System by Danish Aerospace (formally DAMEC Research Aps) for a battery of respiratory and cardiovascular tests and experiments done on astronauts. DAMEC designed in superior technology like the SunTech Medical's OEM blood pressure technology to meet the stringent standards of accuracy and reliability needed in space research.



Instramed is a well respected Brazilian medical device manufacturer providing products to both the human and veterinary markets. SunTech has solutions for both and earned their business providing unique modules for multiple products serving the vet, in-hospital and pre-hospital markets.



Medis, a Sonosite company, manufactures specialized cardiovascular diagnostic medical devices. The Niccom monitors central and peripheral haemodynamic parameters on the basis of Impedance Cardiography (ICG) and Impedance Plethysmography (IPG) giving fast and reliable evaluation of the patient status without an invasive catheter.



The Xtreme Everest 2 Expedition, in cooperation with CORTEX Biophysik GmbH and SunTech Medical, put SunTech's OEM blood pressure and ABPM technologies through extreme conditions. Using the MetaLyzer(r) cardiopulmonary exercise system, they studied how human performance at extreme altitudes relates to conditions and reaction during critical illness. Using the Oscar 2® ABPM System they studied the effects of high altitude on blood pressure over a 24-hour period.



As a leading developer of medical devices in emergency care, ZOLL needed a reliable, motion tolerant NIBP technology to support the total management of resuscitation. By using SunTech Medical's Advantage RMT (R-wave Motion Tolerance) technology, the R Series Defibrillator gets the most accurate and reliable performance during transport.