

CAPABLE



THE NEWSLETTER FROM

CAPTEC



A healthy partnership

The treatment of cancer is one of the most complex medical procedures, requiring technically advanced equipment and reliable computer solutions. Captec are proud to be at the forefront in the development of this technology, through their partnership with medical group Elekta Limited.

Elekta, a global leader in neurosurgery and radiation oncology solutions, have developed one of the world's most advanced clinical systems for the high precision treatment of cancer, thus minimising the exposure of healthy tissue to unnecessary radiation. The control and information system for this complex Image Guided Radiation Therapy (IGRT) equipment is manufactured by Captec, enabling the Elekta Synergy®, an innovative digital linear accelerator, to be fully integrated with a suite of advanced imaging tools, for efficient patient diagnosis and treatment.

The control and information system manufactured by Captec is a 10 Slot Industrial Microbox Chassis, with a high end Dual Xeon processor CPU Card, Industrial PC System, configured with drives

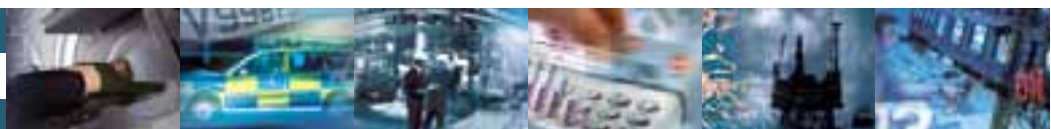
and PCI Cards to the customers specification and housed within a customized chassis.

To ensure that the Captec supplied control and information system met the high functionality standards required for equipment in the medical sector, the system underwent strenuous testing and assessment. Captec's manufacturing systems and processes have also undergone meticulous evaluation and independent random inspections, which are subject to strict scrutiny by The FDA (The Food and Drug Agency) and ETL approval bodies.

Steve Marnier of Elekta Ltd, commenting on the development and approval process of the Captec manufactured equipment, stated "The joint development project for our customized computer system was handled very successfully, leading to full production with excellent customer focus."

The outcome of this rigorous development, testing and manufacturing process allows Captec to supply Elekta with four different computer platforms, that conform to strict protocols and medical sector regulations, to control their systems.

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At the forefront of homeland security

In the current climate, where homeland security is at the top of many national agendas, Captec are supplying some of their latest computer platforms to leading providers of high tech security, surveillance and traffic management systems, solutions that in many cases take advantage of the latest advances in Automatic Number Plate Recognition (ANPR) technology.

ANPR is one of a new array of techniques being used to monitor and collect vehicle details and movements. Roadside or vehicle fitted cameras collect number plate images, which when processed can be used in a variety of applications from counter terrorism to congestion charging, anti-theft initiatives, traffic surveys, mobile policing, road safety or access control systems.

Captec are providing security, policing and commercial markets with microbox industrial personal computer (IPC) solutions, which support a Pentium 4 mobile processor, able to execute 'on the spot' processing and manipulation of the acquired image data. Designed to be permanently installed and operated in vehicles, or roadside mounted, the Captec supplied platforms have been fully ruggedized to withstand extreme

environmental conditions and where applicable, fitted with dampers to protect against vehicular shock and vibration.

With fan-less construction, the Captec platforms can provide round the clock monitoring with minimal maintenance requirements. And with a number of mounting configurations available, units may be fitted on or inside existing roadside furniture, car boots, at ferry ports and in a variety of other applications.

The high specification IPCs are able to support a wide range of peripherals, including conventional or infrared cameras, Global Positioning System (GPS) receivers as well as TETRA or GSM / GPRS communications devices.

Whatever the security application, Captec can provide the processing platform solution.



Onwards & upwards

Captec, has moved to new headquarters in Hampshire, following a period of sustained growth and expansion. Captec, which supplies blue chip companies such as BP, Corus and London Underground, more than doubled revenues in 2004, in both the UK and Germany, where the company has a subsidiary.

The move was prompted by a need to increase manufacturing capacity to cope with the existing level of growth. The facility will also provide additional resources to cope with the corporate growth strategy to further expand into Europe and North America.

The new Captec home, which provides nearly 17,000 sq ft of manufacturing, warehousing and office space, is the result of a strategic investment of over £2 million, to meet the current growth and to prepare for the aggressive expansion strategy.

Max Toti, Managing Director, and original Founder of Captec, was the driving force behind the move. "This represents a significant investment in new facilities, which will enable Captec to implement its aggressive business plan over the next 5 years."



"The expansion will position Captec as one of the few Industrial Computing suppliers with true international capability, and will enable the company to focus on its strategic objective of supplying specialist computing technology to major global players."

Getting in to the spirit of things



Captec have provided a leading hospitality group with an industrial communications solution to upgrade in-house management systems. Captec teamed up with a software developer to supply one of the largest managed public house companies in the UK with a web-based back office, management and Electronic Point of Sale (EPOS) system.

The Captec supplied solution enabled the hospitality group to network its EPOS equipment, cash tills, printers, displays and credit card readers, and interface to its back office software suite of wet and dry stock control, ordering, cash control, payroll and MIS reporting.

To meet the networking and connectivity requirements of the hospitality group, Captec supplied over 1400 N-Port Serial-to-Ethernet Device Servers, which allow up to 16 serial devices to communicate via a local area network and within a web-based application.

The cost-effective solution was customised to provide key security features and compatibility with the organisations IP numbering system. To further simplify the connectivity of hardware to the 16 channel N-Ports, Captec also designed and supplied 2800 customised cabling systems and PCBs.

The project is to be extended to develop interfaces with the hospitality groups' central systems, and to be used to harness the competitive advantage that the web based systems deliver by linking to existing and future POS capabilities.

In choosing the Captec supplied solution, the hospitality group recognised that innovative technology and applications assist in promoting operational efficiency and bottom line improvements. And with this technology, and software, the hospitality group now believe they have total control over every operational detail of their entertainment business.



Focus on MES

The worldwide shift of manufacturing to lower cost economies is highlighting the need for continuous improvement. Information gathering and knowledge sharing are amongst manufacturing's most powerful tools in the quest for higher efficiency.

The emergence of software solutions for Enterprise Resource Planning (ERP) and Manufacturing Execution Systems (MES) is creating a requirement for cost effective, flexible and user friendly PC platforms.

Captec's customer, a well established system house, provides innovative solutions and addresses the needs of a wide range of customers across many industries. In selecting a business partner to supply the computer hardware for their mission critical production applications, they undertook a rigorous assessment process before choosing Captec.

The resulting partnership sees both companies focusing on their specific areas of competence to deliver the maximum overall value and quality to the customer.

Captec supply the system integrator with a variant of the Katana-150 MES series which has been configured to optimize the performance of the software application.

This new product was based on the successful Katana-150TS series, and includes enhanced features to meet the demands of



ERP, MES, and Computerized Maintenance Management Software (CMMS) applications. The Katana-150 MES features high levels of IP protection, as well as a highly reliable fan-less operation, without compromising on performance or affordability.

The Katana-150 MES and Katana-150 are powerful and cost-effective Terminal PCs, designed for robust and reliable operation in advanced manufacturing applications.

The successful completion of this project reinforces Captec's position as the leading supplier of customized PC systems.

Helping to save lives at Sea

Captec have been closely involved in developing new computer based safety technology, designed to aid in the saving of lives in the North Sea oil and gas industries. Captec have worked in partnership with systems integrator SML Technologies, to develop the computer system with marine safety in mind.

The Captec configured computer technology is at the centre of a global monitoring system that checks and relays the position of off-shore vessels and personnel. This ensures that, in the event of an emergency or rescue situation, the exact location of workers and marine equipment can be instantly pin-pointed and a rescue operation swiftly implemented.

Captec, who specialise in bespoke industrial computer solutions, provide the platforms on which the 21st Century safety system operates. Located on an off-shore rig or support vessel, the equipment has been specially designed to meet the demanding requirements of the North Sea environment. The computer base stations monitor transmissions from personal locator beacons issued to all off-shore personnel. The beacons, which are conveniently designed into a wrist watch, are activated when they make contact with salt water and transmit a signal on international search and rescue frequencies. It is these signals which the monitoring system picks up and displays on electronic charts to coordinate rescue craft and operations, and alert other vessels in the area.



By their very nature, safety systems must offer fail safe operation, require little maintenance and suffer minimal downtime. To satisfy these requirements, Captec supply a fully redundant system, within a single chassis. This facilitates ease of maintenance, part replacement or repair, while ensuring the user has the uninterrupted ability to monitor and process data, and round-the-clock safety cover.

Full component traceability was a further requirement of this off-shore application, such that parts identification or (where required) substitution, is streamlined during routine maintenance.

The Captec solution for this safety monitoring process is now part of a system that is being used across the globe to aid in safeguarding lives at sea, and is only the latest product to emerge from the relationship between Captec and SML Technologies, who have operated a successful partnership for over 13 years.



Industrial PC's make headline news

For decades, manufacturers and engineers have had to rely on PLC (programmable logic controller) cards to control and monitor a range of systems and applications. Captec, the market leading supplier of innovative and bespoke Industrial PC's has supplied one of the UK's leading newspaper publishers, with "shoebox" Industrial PC's, replacing the legacy PLC cards, resulting in quicker, more efficient live monitoring and newspaper production reporting.

As one of the UK's leading newspaper publishers, producing many different and varying titles, quality, efficiency and reliability are paramount to them on a daily basis. The company was looking for a way to make their process control more efficient, across a number of printing plants in the UK, with the replacement of PLC's the chosen route. Captec provided the platform to control and collect data more quickly, from start to finish of production, using a network of Industrial PC's. The data the units gather is then transmitted in real time to the central monitoring and reporting servers using the TCP/IP protocol.

The small footprint of these compact computer systems facilitates their housing in air filtered cabinets, a

significant advantage as printing presses produce dust in high volumes. They are designed with maintainability in mind, with highly accessible and replaceable components. A further advantage is that the PC's have a higher processing capability and a greater range of functions than the now out-dated PLC's.

Today, the publishing company are achieving higher levels of production and efficiency, with fewer delays due to their industrial computing platforms pinpointing any errors, and helping to keep the press printing.