

Case Study

Security

CAPTEC

Tried, Tested and Trusted



customer The

The customer is a leading provider of high technology, security, surveillance and traffic management products, providing accurate, cost-effective systems for the Security, Police, and Commercial markets.

The company is a market leader in the supply of ANPR (Automatic Number Plate Recognition) systems, used to monitor and collect vehicle details and movements, parking guidance and mobile digital speed enforcement systems.

Automatic Number Plate Recognition (ANPR)

Requirements and issues

- The customer requirement for the ANPR system was for a compact, mobile platform, designed to be permanently installed and operated in vehicles, or installed in roadside cabinets. The system required powerful processing capability, with the ability to capture high speed data, using frame grabbing software, and create, control and manage 'on-board' databases. The system also needed to be 'live linked' to back office facilities, using external modems.
- A ruggedized design was required with shock absorption capacity, to prevent vibration and shock damage, encountered in the mobile environment. The system also needed to offer flexibility in deployment, with the provision of a variety of mounting options, and the ability to support a wide variety of peripherals, including multiple cameras, touch screen monitors and miniature keyboards.
- The platforms would be enclosed in vehicles or permanently installed in roadside furniture, and therefore needed to take advantage of innovative heat dissipation technologies for operation in extreme temperatures. The system also had to meet 'zero' maintenance construction requirements, with a minimum of moving parts. And to facilitate vehicular installation, the custom-designed equipment required full-connectivity with in-car technology, and a power conditioner for clean power supply.
- A custom-designed solution would have to be produced under the onerous standard requirements for equipment supplied for use on emergency vehicles and conform to VIDG5/AES5, as well as carrying the E Marking, a standard requirement for all mobile electronic equipment with an IT application.



The value proposition

Design, research, development and operational capability to produce industrial computing equipment to meet the rigorous requirements of the application, including internal shock absorption devices and innovative heat dissipation techniques, coupled with engineering capabilities to design and engineer customized application specific electronics.

Access to an extensive and well established global supply chain network to obtain best price/value components, and the ability to leverage volume purchasing over multiple projects to obtain best value for the customer.

The ability to manage change and material control to mitigate component obsolescence and superseded technology, in order to future-proof the customer from the industry's constant change. The ability to organize, co-ordinate and undertake full system compliance testing via a certified third party test house.

The provision of expert consultation and analysis of open standard industrial PC technology to future proof the computing platform.

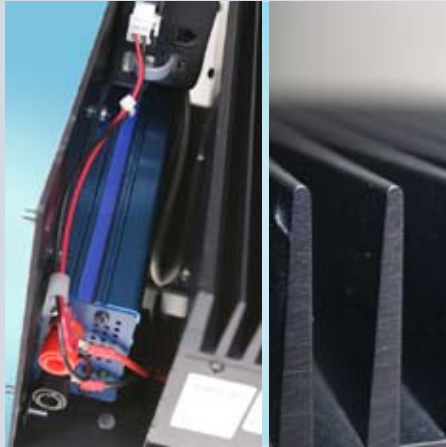
The knowledge and experience of industry standards required to produce industrial computing equipment for installation in emergency service vehicles (VIDG5/AES5).

ISO-9001 quality certified, with a quality and manufacturing management controls systems, with an unblemished track record of zero non-conformances by a third party certification body (SGS).

demands of your applications.

The solutions

The outcome



The Apollo - powerful shoebox IPC, shock mounted and vibration protected for in-vehicle operation.

Frame grabber cards - for the reading of number plates.

GPRS / GSM communications modules

- ✓ The provision of customized industrial computing platform solutions, tailored specifically to the requirements of the application, with ruggedized design and flexibility of deployment suitable for vehicular or static utilization.
- ✓ The provision of fully certified equipment, conforming to industry standards (VIDG5/AES5).
- ✓ The provision of fanless, powerful computing platforms, conforming to the customer's requirements of minimum of moving parts.
- ✓ The successful roll-out to various UK based police forces.
- ✓ The systems have performed successfully during countless high speed situations.
- ✓ As a result of the partnership with Captec, the customer has grown exponentially in export markets.
- ✓ The provision of customized industrial computing platform solutions, tailored specifically to the requirements of the application, with ruggedized design and flexibility of deployment suitable for vehicular or static utilization.

OUR PURPOSE - To be the recognised global leader in the design and manufacture of reliable and affordable industrial computers fit for demanding environments.

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INVESTORS IN PEOPLE



Strenuis Ardua Cedunt - Difficult things fall to the strong

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