CASE STUDY

ENFORCE INSTALLS RELIABLE IN-CAR SOLUTION FOR POLICE PATROL IN KAZAKHSTAN

CUSTOMER	CHALLENGE	SOLUTION
Police Patrol in Kazakhstan	To be able to automate the police patrol cars, Enforce needed a more reliable and cost effective solution.	Using the convenient car dock - which allows the device to be fixed securely and quickly removed as necessary - the **Durabook R11** tablets have now been successfully installed in 100 patrol cars across the region.

INTRODUCTION

Police forces around the world are increasingly using technology to improve critical awareness, make jobs more efficient and support officer safety. Enforce LLP works closely with the Republic of Kazakhstan Ministry of Internal Affairs, providing technical support and solutions for its police patrol force. It develops software to improve processes and provides hardware that can withstand the often tough environments in which the police operate.

АПК ЦИКЛОП

R11 Tablet

CHALLENGE

Enforce was tasked with providing new on-board computers for police vehicles in the region. The computers would be required to meet rigorous requirements both in terms of computing power and operating conditions.

Enforce would usually spend time experimenting with building a classic on-board PC circuit from third-party manufacturers, which would involve many separate parts, from a base computer, to a protective case, a monitor and so on. But this showed low reliability and little fault tolerance in police operating conditions. The major challenges of this system were the large number of intermediate connections, which could not withstand the patrol car's vibration, as well as problems with power supply because of lack of capacity for a backup battery.

To be able to automate the police patrol cars, Enforce needed a more reliable and cost effective solution.

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>
> Sayat Akshalov,
> Head of Technical Service of the Traffic Police Battalion at Enforce

SOLUTION

Enforce turned to its long term partner, Durabook. Durabook suggested its compact, feature-rich R11 tablet would be an ideal solution because it is robust and rugged enough for use in vehicles, but also offered reliability in terms of power and performance.

The R11's Intel i5 processor easily copes with coding a video sequence of the patrol car's cameras as well as with video analytics, such as license plate recognition, while a 4G modem would ensure stable communication with the dispatch server. The tablet's position in the patrol car would mean it would need to resist seriously challenging conditions, such as vibration and shock loads as well as high temperatures, which locally could be between -45°C to +45°C. The R11 is rugged and has been tested to military standards (MIL-STD-810G and MIL-STD 461F certified) and IP65 rated ensuring that it and its components are able to withstand these extreme environments, drops, shocks and vibrations.

Using the convenient car dock - which allows the device to be fixed securely and quickly removed as necessary - the Durabook R11 tablets have now been successfully installed in 100 patrol cars across the region.

BENEFITS

Since installing the R11 tablets, life for police patrol offices has become more efficient. The R11's built-in battery gives round the clock support and the device is super reliable - in fact, the number of service calls from the police force for technical support has reduced by 30% because of the low failure rate of the new R11 system. The devices are continuing to work seamlessly even in the extreme temperatures, high car speeds and over rough road surfaces.

Sayat Akshalov, Head of Technical Service of the Traffic Police Battalion at Enforce said; "there was an incident when an attacker hijacked a police car, had an accident on it and turned it over - but the on-board R11 tablet continued to function properly - which indicates its high reliability. We have to service the equipment we have installed in police cars, so we are glad that we do not have complex failures due to the reliability of Durabook equipment, and do not need to waste time servicing it."

Akshalov concluded; "the effectiveness of the police has greatly increased with the use of on-board computers. Our supplier - Enforce - has chosen reliable equipment for equipping patrol cars, which allows our team to work without being distracted by technical problems and our cars to remain in patrol service."