

Case Study Public Safety



Police of the Czech Republic employs RuggON PM-511 tablets for law enforcement duty

Ever increasing traffic volume and complexity has law enforcement in search of suitable technology to help them perform their work. As first responders to traffic accidents and incidents, police officers' quick assessment and capturing of evidence is crucial to the outcome of any given situation. Reliable, state-of-the-art technology available to police officers makes streets safer, but consumer-grade tablets can't offer the durability required by law enforcement. That's why the Police of the Czech Republic turned to RuggON's PM-511 rugged portable tablet computer in their quest to optimize their effectiveness and efficiency while performing their duties on the road.

Challenge

Road hazards and dangerous drivers are a major threat to public safety. Police departments need reliable, portable and versatile solutions to help officers curb dangerous driving and violations of the law, verify IDs, scan license plates, and wirelessly communicate with vehicle systems and data servers quickly and efficiently.

Solution

Deploy RuggON PM-511 mobile tablets that are impervious to shock, dust, liquids, and temperature extremes as part of a traffic hazard and violations system with real-time data capture (image, video, sensor, radar, scan, other) and reliable communication with vehicle and remote systems or the cloud.



Result

Law enforcement vehicles equipped with RuggON PM-511 tablets offer improved traffic surveillance, violation detection, processing and reporting, as well as faster and more efficient incident response. Colonel Mgr. Libor Bauer, Svitavy regional department head of the Pardubice Region Police Headquarters and Colonel Mgr. Martin Konecny, head of Transport Inspectorate issued a statement, saying, "RuggON PM-511 tablets deployed in unmarked police vehicles will become a significant tool in detecting and documenting violations on major highways that cause numerous people to lose their lives. These avoidable traffic fatalities on our roads cannot be tolerated, and those who threaten their fellow humans with their recklessness on the road will have to account to police officers in unmarked surveillance vehicles."



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Once installed in a vehicle, the RuggON PM-511 tablet serves as the main computing device to interact with the onboard control unit, sensors, radar and cameras. Using the compact, lightweight tablet, officers can visually document incidents, detect traffic violations, scan license plates, and link to databases for real-time information thanks to the tablet's seamless and stable wireless communications features.

Department officials stated that environmental durability plays a key role in integrated in-vehicle systems. Pursuit of violators and suspect vehicles can make for bumpy rides, mandating law enforcement personnel's need for robust technology impervious to impact and extreme vibration. Mobile devices must also be water-resistant so as to allow officers to perform their duties without having to worry about potential malfunction caused by rain. Consumer-grade tablets are not designed for, and cannot provide, this level of protection. The RuggON PM-511 tablet, on the other hand, is sealed to IP65 ingress protection specifications, has been MIL-STD-810G tested for shock and vibration resistance, and can survive drops from six feet.

The ability to reliably perform within a very wide temperature range is another critical advantage of the RuggON PM-511. Temperature conditions encountered in and outside of law enforcement vehicles can be extreme to the extent where consumer-grade devices would quickly fail or experience malfunction. The PM-511's -20°C to +50°C operating temperature and -30°C to +70°C storage temperature range guard against any such problems.



With its reliable wireless connectivity, robust design, sunlight readability and wide operating temperature range, the RuggON PM-511 tablet can also be deployed roadside to work with radar and camera for the detection of speed violations. When radar detects a speeding vehicle, the car model, license plate, car speed are captured and driver information and other details displayed on the tablet. This allows law enforcement officers to document and report violations, determine pertaining procedures, look up fines and penalties, and issue citations on the spot without the need for time-consuming, error-prone paperwork. Captured information is instantly sent to the proper channels and locations for processing, storage or further investigation.

Durable, powerful, and designed for reliable performance in the field and on the job, the rugged RuggON PM-511 tablet is ideally suited to help law enforcement perform their duties.



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