

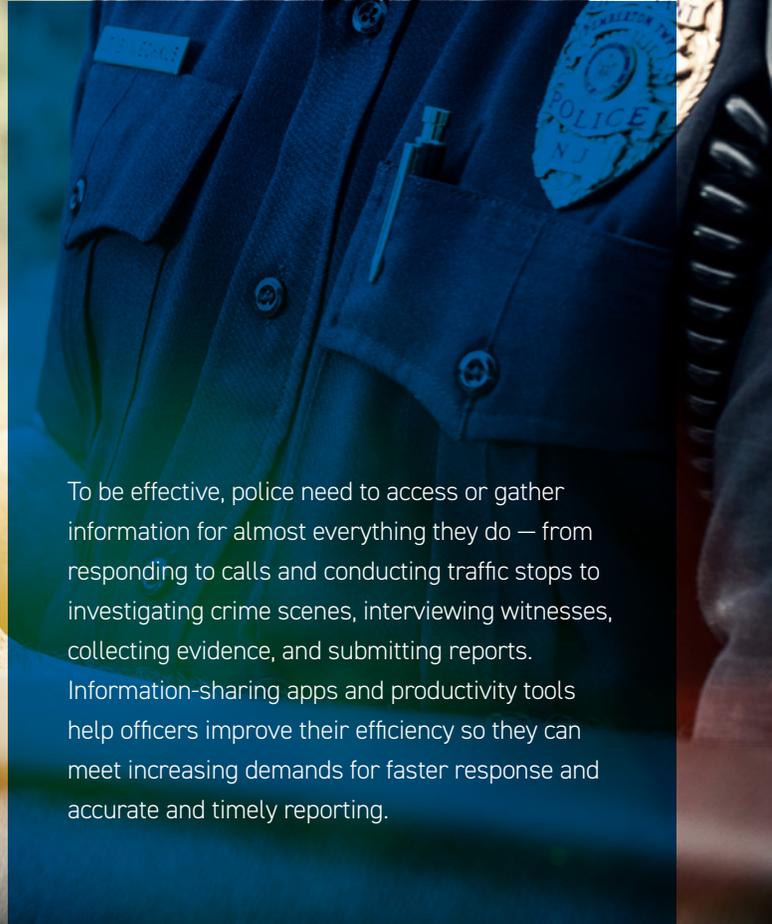
Panasonic

TOUGHBOOK®



Mobile Productivity Solutions for Effective Policing

Today's officers have a variety of tools designed to gather data and information to help them serve the community and enforce the law. Mobile solutions have evolved along with police agencies to provide access to critical information that improve productivity and contribute to more effective policing.



To be effective, police need to access or gather information for almost everything they do — from responding to calls and conducting traffic stops to investigating crime scenes, interviewing witnesses, collecting evidence, and submitting reports. Information-sharing apps and productivity tools help officers improve their efficiency so they can meet increasing demands for faster response and accurate and timely reporting.

The Impact of Mobile Technology

Today's officers are expected to log and track the information they collect — from the citations they issue to the incident and arrest reports they file. Documentation after the fact can lead to inaccurate or missing data, which may cause a criminal case to be delayed or even thrown out of court. Modern mobile productivity solutions are portable, powerful, and help streamline these all-important administrative duties.

Productivity solutions reduce the amount of time officers spend writing reports back at the station. Plus, they can be used relatively quickly after an incident, enhancing accuracy. A recent Nuance™ survey¹ found that 56% of officers spend three or more hours a day writing reports, 81% say time spent reporting leads to burnout, and 94% say timely reporting is an issue.

Mobile solutions streamline reporting and documentation by automating routine tasks, often using voice recognition technology. This not only improves officer productivity, it helps keep costs down and officer performance high.

Police officers are eager for their departments to invest in digital tools that boost their ability to do their jobs. In fact, 98% of officers in the Nuance survey say their department needs to adopt technologies that improve the quality of reporting, officer safety, and community visibility.



What Officers (*Really*) Want

Police magazine conducted a study of top trends in law enforcement technology to better understand their impact on policing. Police officers identified their most important tech tools as automated license plate recognition (ALPR), mobile computers, mobile and body-worn video cameras, CAD, records management systems (RMS) and integrated evidence solutions, all designed to enhance officer productivity and information sharing².

The study found that while 84% of agencies already install mobile computers in squad cars, 36% equip officers with tablet computers while on patrol. Department-issued smartphones, faster communications networks, and drones with infrared imaging topped the list of future wants.

Commonly Used Police Technologies

The *Police* magazine study shows that officers see the value in technology and want more of it. Today, some commonly used productivity solutions include:

- **Voice Recognition Reporting:** Speech recognition tools help officers prepare accurate reports by up to 50%³. Speaking a report versus writing one also keeps officers' heads up in their squad cars, so they are constantly aware of their surroundings.
- **E-ticketing:** Officers can scan a barcode on a driver's license and wirelessly transmit the information to a rugged mobile computer in the squad car where a mobile printer issues a paper ticket. The data is transmitted back to headquarters and the courthouse for a timely, accurate record.
- **Automated License Plate Recognition (ALPR):** These systems use a high-speed camera to capture images of license plates. Software compares the image to license plates of interest. An alert notifies officers when a plate matches the agency's "hot list."
- **Computer-aided Dispatch (CAD):** Dispatchers coordinate communications and assign and track department resources in response to calls-for-service. An RMS preserves the data related to the dispatch and provides access to historical data about calls, people, and locations that police can use when responding to dispatch.
- **Mobile Digital Video Systems:** Video documentation using body-worn or in-car video camera systems have become critical for police situational awareness and documentation. Video enhances transparency and accountability, calms interactions, and helps solve crimes more quickly.
- **Analytics and biometrics:** AI, machine learning and biometrics like facial recognition enable police to collect information and act when alerted to potential crime areas or persons of interest.
- **Reconnaissance tools:** Drones and robots allow police to collect information from a safe distance, providing situational analysis about potential incidents. A growing number of departments use drones for surveillance, to investigate bomb threats, provide intelligence in active shooter or hostage situations, and gather information about drug-related crimes.

Rugged mobile devices help officers work faster and smarter by serving as the interface with these technologies. A single device can provide access to criminal justice databases and CAD, ALPR, e-ticketing, and GPS applications. They can also stream high-definition video and upload it to headquarters for processing or control a drone. Officers can safely mount their rugged devices in their squad cars. They can easily release them when they need to record witness statements, document events, and collect evidence in the streets.

Why Rugged Matters

Using productivity tools for police work requires durable devices that can stand up to a wide variety of conditions and consumer-grade mobile computers just won't do. The Eaton County (Michigan) Police Department found this out the hard way. The agency switched to consumer-grade devices to save money because the up-front cost is less. However, the new consumer devices frequently broke down, over-heated, and suffered damage in daily use. Officers experienced limited functionality and connectivity, often requiring them to return to headquarters to complete reports and perform other tasks.

As Eaton County discovered, mobile computers used by police need to be rugged to hold up to law enforcement use. Rugged devices are tested to Mil-STD-810G (military standards) to withstand extremes in temperature, humidity, altitudes, vibration, and accidental drops. Devices meeting these specs are also resistant to wind, rain, sand, dust, and fluids.

Eaton County switched back to rugged tablets, choosing the Panasonic TOUGHPAD® FZ-G1 tablets preloaded with critical software for first responders. The agency now experiences fewer issues and less downtime because its TOUGHPADs can withstand the rigors of policing. Their durability and reliability keep officers out of headquarters serving the community.

Rugged mobile devices are built to last longer and require fewer repairs — even under extreme conditions. Panasonic leads the industry with the lowest failure rate for its TOUGHBOOK line of rugged mobile devices. With a TOUGHBOOK, police agencies will experience significantly lower repair or replacement costs and a longer product life, which contribute to lower cost of ownership.

+ The TOUGHBOOK Advantage

Panasonic TOUGHBOOK computers come in a variety of high-performance, easy-to-use models and operating systems to meet varied needs of law enforcement. We offer rugged laptops, 2-in-1s, tablets, and handhelds running Windows® 10 or Android™ operating systems.

These mobile computing devices come with security features, HD sunlight-viewable, multi-touch, rain-sensing and glove-touch screens, and long-life batteries. Available with FirstNet capabilities, some models include HD and infrared camera systems, night mode to reduce eyestrain and preserve night vision, noise-canceling microphones, and powerful speakers for loud environments.

Our most popular TOUGHBOOK models for law enforcement are:

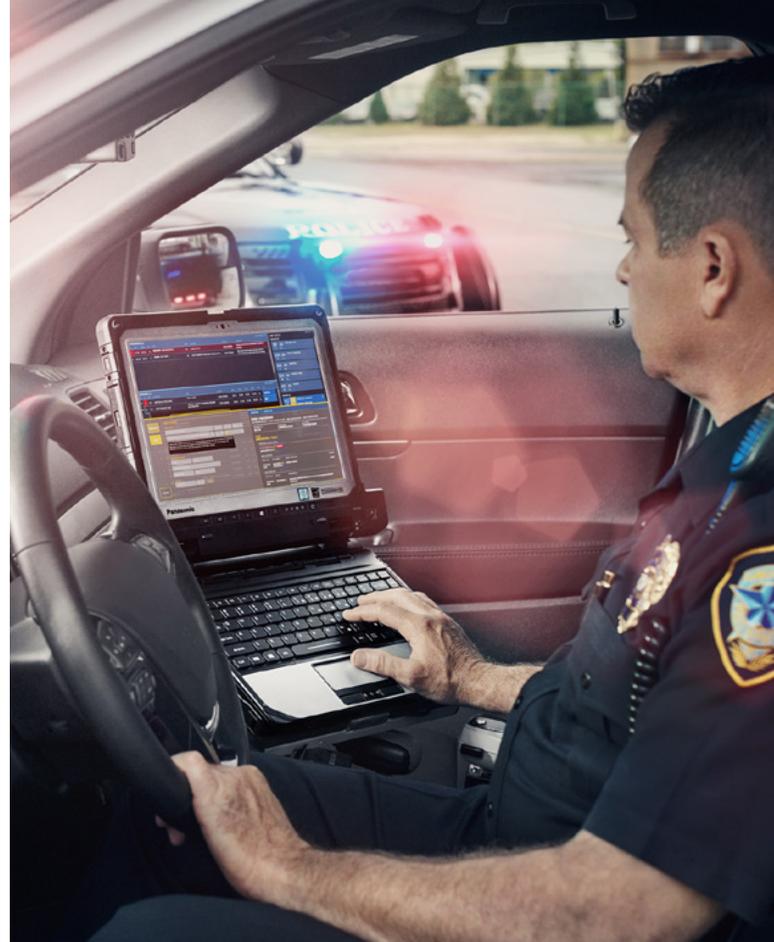
- **TOUGHBOOK 55:** A 14-inch semi-rugged Windows 10 Pro 64-Bit laptop that features an innovative modular design to switch out tools like optical drives, authentication readers, and dedicated graphics. Available with up to 40 hours of battery life with an optional second battery.
- **TOUGHBOOK 33:** A 12-inch, fully rugged 2-in-1 computer is both a tablet and a Windows 10 Pro 64-Bit PC giving officers a portable tablet out of their vehicles or a full laptop experience for heavy-duty data entry.
- **TOUGHPAD FZ-G1:** A thin, powerful rugged 10.1-inch tablet running Windows 10 Pro 64-Bit, allowing officers to access CJIS databases, dispatch assignments, and more. HD graphic performance helps capture and document images with clarity.
- **TOUGHBOOK N1:** Officers can use this powerful, slim, and rugged Android handheld to check drivers' licenses and for e-ticketing. Dual speakers offer noise and echo canceling in loud environments. This handheld device includes voice capabilities and supports AT&T Enhanced Push-to-Talk (EPTT).



TOUGHBOOK Solutions for Law Enforcement

Panasonic offers information-sharing and productivity solutions, including mobile and connected patrol car solutions with 360-degree mobile evidence capture cameras for vehicles; wearable body cameras that automate capture and transmission of video evidence; rugged laptops, tablets, and handhelds tested to rigorous military standards; industry-leading software and hardware; and a full system of professional services to help agencies plan, test, and deploy their technology.

The agency can configure and customize TOUGHBOOK devices to handle police data retrieval programs, run license plate numbers, scan photographs, or organize case details. Ample processing power allows the systems to run several demanding software programs at the same time.



Learn more about how Panasonic TOUGHBOOK solutions are raising the bar on information sharing and productivity solutions that help officers work more effectively. [Visit our law enforcement solutions page to learn more or contact Panasonic.](#)

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REFERENCES

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> Keep Rugged Computers Running

Panasonic ProServices team can help plan, deploy, and install mobile technology and keep them operating long after the sale is complete.



Warranties. Panasonic backs TOUGHBOOK computers with a powerful warranty program and a service team to support and repair systems as needed.



Deployment services. TOUGHBOOK computers arrive field-ready, loaded with necessary software, and third-party accessories right out of the box.



Custom software development and integration. Streamlined device integration with law enforcement systems using the Rapid Application Development platform.



Vehicle installation services. Professional installation keeps equipment safe and readily available.