



Pennsylvania State Police

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Pennsylvania State Police Unveil Advanced Patrol Vehicle Upgrades for Enhanced Safety and Visibility

Major upgrades reflect the department's commitment to using advanced technology to protect communities and support troopers.

PSP will be one of only two law enforcement agencies in the nation with advanced sound capability — meaning motorists should be able to hear a PSP emergency vehicle much faster than before and troopers should be able to clearly and immediately communicate with the public.

Troopers will have access to a selection of voice commands, commonly used for traffic stops and incident responses, in both English and Spanish.

Harrisburg, PA – The Pennsylvania State Police (PSP) today unveiled a series of enhancements to their patrol vehicles that significantly improve visibility during traffic stops and emergency responses, enhancing safety for both troopers and the public.

“These upgrades represent a major step forward in safety, visibility, and operational efficiency,” said **Lieutenant Colonel George Bivens, Acting Commissioner of the PSP**. “This department has long set the benchmark for professionalism and innovation, and with this cutting-edge technology, we will continue to lead by example and set new standards for law enforcement across the nation.”

The upgrades include a distinctive V-shaped light bar that provides full 360-degree illumination, dramatically increasing visibility compared to traditional linear bars. The system features GPS-based vehicle-to-vehicle communication that automatically synchronizes flash patterns and voice commands among nearby patrol units, improving coordination and safety at emergency scenes. The light bar functions as an auxiliary brake light during hard braking, an arrow board for traffic control, and a floodlight for use in dark, hazardous environments. In low-light conditions, when the vehicle is parked, an automatic dimming feature enhances vision at night and reduces glare.

The department also equipped patrol vehicles with a new 400-watt siren system that includes four speakers and a low-frequency Rumbler device. This system adds low-frequency vibrations to traditional high-frequency tones, increasing sound pressure inside nearby vehicles by up to 10 decibels. As a result, the emergency warning time for motorists to detect and respond to an approaching emergency vehicle has increased. PSP is one of only two law enforcement agencies in the nation with this advanced sound capability.

To support these enhancements, PSP modernized the light and siren control panel to make operation simpler and more intuitive. When emergency lights are activated, the controls automatically enter a hands-free mode, and the public address system remains live at full volume to ensure clear, immediate communication. Troopers have access to a selection of automated voice commands, commonly used for traffic stops and incident responses, which are available in English or Spanish and can be repeated as needed.

These upgrades reflect the department's commitment to embracing new technologies and emerging tools to ensure troopers have the resources they need to perform their duties safely and efficiently while strengthening their ability to protect Pennsylvania communities.

These enhancements continue the Shapiro Administration's work to build safer communities and ensure law enforcement is well-trained, well-staffed, well-funded, and well-equipped. The 2025-26 state budget signed by Governor Shapiro invests in new patrol vehicles to replace high-mileage units in the PSP fleet. State troopers patrol 44,000 miles of Pennsylvania highway, so it's not uncommon for their patrol vehicles to reach 200,000 miles before replacement.

The budget also includes funding for four additional PSP cadet classes. Since taking office, Governor Shapiro has secured funding for twelve cadet classes to train over 1,000 new Pennsylvania State Troopers and secured funding through the Pennsylvania Commission on Crime and Delinquency (PCCD) to help municipal police departments recruit and retain nearly 700 municipal police officers across the Commonwealth. To date, more than 550 PSP cadets have graduated and joined the ranks of PSP under Governor Shapiro's leadership.

For more information on the Pennsylvania State Police, visit the [PSP website](#).

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