

Case Study



PROJECT54®

The University of New Hampshire and L-com Provide Voice Activated Control Systems Increasing Law Enforcement Efficiency and Response Time



Customer Profile

Customer: University of
New Hampshire CATlab
Location: Durham, New Hampshire
Industry: Higher Education – R&D

Challenge

- Meet technology requirements for the Project54 design team for developing state of the art voice activated control systems for law enforcement vehicles

Solution

- Off the shelf and custom D-Subminiature, USB and Telecom/Ethernet cables and couplers

Results

- Successful installation of over 1,000 Project54 systems
- Enhanced efficiencies for law enforcement response times
- Met cost and lead time requirements for the project

Challenge

The University of New Hampshire Consolidated Advanced Technologies Laboratory (CATLab) project is a collaborative research and development effort between the University of New Hampshire and the New Hampshire Department of Safety and is supported by the U.S. Department of Justice. The faculty and students of CATlab work on introducing advanced technologies into the operations of the New Hampshire State Police and other state and out of state law enforcement agencies.

Today's cruisers are equipped with digital radios, GPS units, computers, various radars, lights, sirens, etc. Dispatch centers have become computerized, and officers on the beat and in offices access a variety of databases on a daily basis. However, these devices are most often not designed to become a part of a system of multiple devices manufactured by different companies, in other words they are not designed with integration in mind.

The integration of devices and systems is the primary interest of the CATlab. Most of their work is focused on integrating electronic devices in police cruisers. The integrated Project54 system allows officers to interact with equipment such as lights and siren, radar, etc. using voice input and feedback. The Project54 system also integrates police cruisers into state-wide data networks.

The Project54 design team needed off the shelf and customized connectivity solutions for its next generation voice activated police cruiser control system. Additionally they needed ruggedized IP rated products to support their development efforts with both reasonable cost and short lead times.

Solution

L-com provided a combination of off the shelf and custom built D-Subminiature, USB and Modular RJ45 cable assemblies and adapters to meet the specific requirements of the Project54 engineers on time and within budget. Additionally, L-com's off the shelf rugged IP67 rated USB cable assemblies and adapters were used to address harsh field applications.

Results

More than 1,000 law enforcement vehicles are now equipped with the Project54 system comprising both in state (New Hampshire) and out of state police departments. By utilizing the Project54 system, law enforcement can now respond faster and more efficiently to situations increasing overall public safety.