



PROJECT54

A Voice-Operated, Remote Controlled Police Vehicle System



UNIVERSITY of NEW HAMPSHIRE



What is Project54?

Project54 is an effort by the Consolidated Advanced Technologies Laboratory (CATLab). Our goal is the creation and implementation of integration standards for in-car electronic devices. From the point of view of the officer operating a cruiser, the goal is to create a system with a standard and safe user interface that will allow hands-free and eyes-free operation of in-car devices. From the point of view of the department that installs and maintains in-car devices, the project aims to create a modular, scalable system that is easily installed, modified, expanded, inspected, and repaired.

Project54 is demoed at UNH

About CATLab

The Consolidated Advanced Technologies Laboratory (CATLab) project is a collaborative research and development effort between UNH and the NH Department of Safety and is supported by the U.S. Department of Justice through the efforts of U.S. Senator Judd Gregg. CATLab Faculty and students work on introducing advanced technologies into the operations of the NH State Police and other law enforcement agencies. The CATLab team consists of approximately 35 faculty members, engineers, technicians, graduate and undergraduate students from the UNH Electrical and Computer Engineering Department as well as members of law enforcement.



Project54 is also installed on some patrol boats

Features of Project54

Fully Integrated System: Project54 is designed to integrate electronic devices (radar, radio, lights, siren, video, etc.) into one common control system. This allows all in-car equipment to be seamlessly controlled from a central Windows-based computer program. This reduces the distraction that officers face when trying to simultaneously operate multiple devices while driving. The Project54 system provides parallel control of every function through voice commands, an LCD touchscreen, a keyboard, and the original manufacturer's control heads.

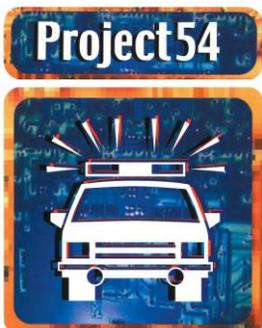
Remote Access and In-Vehicle Data: Data queries using voice commands can be done over a data radio, a CDPD connection, or by accessing a database that is stored locally in the vehicle. Query results are read back audibly. This allows officers to simply read license plate numbers of cars they pass on the highway and hear the query results, all with their hands on the steering wheel and their eyes on the road.

Remote Controlled: Handheld computers provide wireless remote control to the Project54 in-car system. This allows officers to perform such tasks as controlling the lights and siren as well as running records checks and reviewing criminal history data, all from outside the vehicle.

Voice Operated: Every function in the vehicle can be performed with simple voice commands. This allows officers to do such things as control their lights, siren, radar, radio, GPS, video and perform record queries all while keeping their hands on the wheel and their eyes on the road.



The Project54 system cleans up the cockpit and takes up no trunk space.



More info at: <http://www.project54.unh.edu>
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