

# SMART DRIVING

Endura and X-Portal on the Izmir-Aydın-Cesme Highway



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Snaking its way through the Aegean region of Turkey, the İzmir-Aydın-Çesme Highway is one of the most important routes in all of Turkey. Spanning more than 220 kilometers, it is the main thoroughfare for tourist and other traffic.

In an effort to both maintain a steady flow of traffic and ensure the safety of its passengers, the General Directorate of Highways decided to implement an intelligent highway automation system, to integrate a number of systems to provide detailed information on road conditions, traffic flow and usage patterns, and allow for the immediate dispatch of emergency responders when necessary.

As the manufacturer of choice for the video security component of this intelligent installation, Pelco cameras are positioned at the toll booths along the highway's entry and exit points. Every toll booth has at least one 24X Day/Night Esprit Integrated Positioning System. Additionally, the CCC1390H-6X Day/Night fixed camera with Wide Dynamic Range is used in conjunction with the EH3512-3X enclosure. When used in concert, these systems provide 360-degree video surveillance, capable of relaying real-time video of highway conditions, in general, or of specific cars, in particular.

The backbone of the video security component is the Endura Video System. Video signals received from each of the 28 Esprit Positioning Systems and 76 fixed cameras are converted to digital streams by means of the Endura Encoders, which are housed

in climate-controlled rooms at highway monitoring and control centers. The main control center, along with two sub-centers, employs an Endura WS5050 Workstation. For camera control, a KBD5000 keyboard is used, and for recording purposes, five, 24-channel NVR5000 Network Video Recorders have also been deployed.

Because integration of the other intelligent highway systems and Endura was needed, Pelco X-Portal was used. A multi-product API rendering program, X-Portal provides a platform to connect third-party systems to Pelco products, including Endura and DX8000 Series DVRs.

In this particular application, an advanced graphic user interface enables all systems to be embedded visually on highway maps. Because of this capability, security personnel can easily call up desired video from selected cameras simply by clicking and dragging the appropriate icon from the map. Depending on the feed received by road and meteorology sensors, related cameras come to the screen automatically. In ice, fog and other similar conditions, the respective cameras come to the screens automatically as well.

Ultimately, this real-time data will be available for public access through the Internet, providing drivers with road condition and other information to speed their journeys and improve their safety. **1**



Photos: Savronik

## THE X-PORTAL ADVANTAGE

Understanding the challenges that real-world third parties face, Pelco has developed a world-class interface with the integrator in mind. Designed not as an afterthought, but as a forefront software-only solution for any multi-system project, X-Portal transparently provides the gateway to Pelco video security solutions.

X-PORTAL: the fast and efficient solution for developing a cutting-edge interface to meet the demands of your specific application.

Expand opportunities by integrating with the global leader in video security:

- Save money by leveraging integration tools
- Save development time and effort
- Single methodology to integrate Pelco products
- Accomplish integration today and pave the way for tomorrow's products
- Eliminate multiple API sustaining requirements
- Streamline engineering expertise requirements by using only XML technology