



Security, Communications, Command, and Response
An affiliate of Sentry Technology Group, Inc.

ARMOR[®] Airport Perimeter Security



A White Paper by 4D Security Solutions, Inc.

Airport perimeter security poses some unique challenges not found in the protection of other critical sites. These challenges include the following:

- **Jet blast** of aircraft taking off or landing causing vibrations in some of the sensors, and potentially resulting in nuisance alarms.
- **The presence of many existing radar systems** (e.g., for air traffic control) potentially interfering with, or susceptible to, interference from the ground surveillance radar (GSR).
- **A complicated perimeter** — a mix of buildings, shorelines, fence lines, and gates (manned and unmanned). In some cases, public areas adjacent to the airport operations area (AOA), separated only by a fence.
- **Height restrictions** — the FAA mandates areas where there is a limit on the height of any obstruction. This affects the placement of sensors; for example, if a sensor must be mounted on a sixteen-foot pole and objects only up to six feet high are allowed at that location.
- **The existence of legacy systems** — access control (federally mandated systems), camera and video systems, and others.
- **Multiple operational configurations** to accommodate Aviation, Police, Maintenance, Operations, and VIPs.

4D offers a comprehensive approach to the design, integration, testing, and deployment of an end-to-end, turnkey Airport Perimeter Security System. At the heart of this system is ARMOR[®] — A sophisticated and unique *multi-sensor fusion*-based Command & Control (C2) application.

This white paper details 4D's approach, as applied to airport perimeter security, and how its ARMOR[®] solution is utilized for this application.