

CASE STUDY



Philadelphia International Airport—Pennsylvania

The PGS system provided by TCS to Philadelphia International Airport represents one of the largest retrofit installations in North America using a wide combination of the latest device technologies currently available. The system boasts approximately 2,000 devices, approximately 480 directional sensors, and 300 parking guidance signs consisting of a client/server back end located in the traffic operations center. TCS built the solution with an eye for the future providing the ability to add freeway variable message signs, and even provide the capability for updates to a variety of hand-held devices (PDS, cell phone, GPS, etc.).

Installation Highlights:

- Monitors over 14,500 spaces in 5 parking garages
- Ultrasonic directional sensors installed at the end of aisle counting points
- IP addressable devices
- Each level of the parking facility has its own traffic control devices for complete redundancy
- Single space monitoring visually designates parking availability and handicapped spaces
- Custom design to retrofit existing large-scale parking structures



Level count signs on all helix ramps provide guidance to open parking spaces.



End of aisle directional signs display open spaces down each drive aisle.



Philadelphia International Airport uses TCS International's powerful counting software which includes preset statistical analysis and the ability to perform ad hoc queries. Reports are accessible via browser based access for immediate real-time system updates. Alarms and messages are updated real-time and can be delivered to a cell phone or PDA. All LED signs meet the highest standards including light intensity sensors based upon ambient light, and MBFT of 100,000 hours/10 yrs.

Technologies:

- complex parking guidance
- wayfinding
- use of existing fiber communication network
- high-volume application
- single space monitoring & end of aisle zone counting
- visual indication of handicapped parking spaces
- IP addressable devices and components
- ultrasonic directional sensors



Single space sensors installed at perimeter and handicapped parking spaces.

About TCS

TCS International manufactures and designs intelligent parking guidance solutions. Real-time monitoring allows our customers to promote open spaces, and improve vehicle flow by reducing “cruising” which increases operator and customer satisfaction. Getting customers to their destination more quickly has the added benefit of reducing your facility’s carbon footprint. TCS conceptualizes, manufactures, and continually improves all of its products by harnessing over 100 years of direct industry knowledge found in its product development team. From wireless intelligent parking guidance systems, to automated parking management solutions, TCS provides end-to-end solutions to monitor and facilitate car egress for any facility.

