Infinity∞

Digital Lane System

The Infinity∞ Digital Lane System® is a comprehensive hardware and software tolling solution specifically designed for roadside toll collection and operations.

With a focus on system reliability, accuracy and performance, the Infinity∞ solution incorporates decades of tolling integration and operation best practices. Its robust configuration supports All-Electronic Tolling (AET), Open Road Tolling (ORT), ticket-based toll collection, cash-based toll collection and High-Occupancy Tolling (HOT) lanes.

Modular

Its unique modular design of individual computers, known as “blades,” results in improved toll lane system performance. The modular configuration allows the blades to be replaced while “hot” in minutes. Each IP-addressable blade is self-contained with its own power supply, central processing unit (CPU), data storage device, diagnostic indicators and maintenance ports.

Upgradable

The on-blade processor board module is easily replaced to upgrade the entire blade to the latest technology. This extends the life of the toll system indefinitely and eliminates costly re-procurement. Major components within the blades leverage common-off-the-shelf parts, including the COM express processor module, power supplies, hard drives, fans and flash memory.

Reliable

The Infinity Digital Lane System is a proven technology, deployed in toll systems around the country, processing over 740 million transactions per year. The system is designed with advanced maintenance and monitoring features to eliminate lane downtime. Primary Lane and ORT Controllers have active and redundant secondary controllers, for reliability.

Reduced Spares

Infinity is designed with only two interchangeable blade types: one for lane servers, VCARS® and AVI controllers, and a second for Intelligent Vehicle Identification System (IVIS) controllers and ORT zone controllers.

TRANSCORE®

Trusted Transportation Solutions

Each best-in-class subsystem is specifically designed for integration into an innovative, feature-rich toll solution - **Infinity∞ Digital Lane System**.

Intelligent Vehicle Identification System (IVIS)

Used for vehicle detection, separation, tracking and classification. IVIS® is a patented loop-based technology that counts axles, detects dual tires and trailer hitches, and separates vehicles without the need for additional devices, such as treadles and overhead lasers. IVIS standardizes the vehicle classification system for every lane in the toll system.

Traffic Control Pedestal (TCP)

A consolidated and customizable unit for single lane installation of island traffic lights, alarms, lane audit camera, Violation Enforcement System (VES) cameras and the patron toll display (PTD). Installation is fast and convenient at the roadside with only a single set of cable runs.

Vehicle Capture and Recognition System (VCARS)

A license plate image capture system for open road tolling violation enforcement or video based tolling. The overhead gantry-mounted VCARS units have remote camera tuning capability of focus, pan/tilt/zoom. Adjustments can be made without the need for lane closures. The dual, stereoscopic, high-resolution, color cameras installed within these units, combined with the tight integration of the accurate IVIS trigger, produce exceptional image quality.

Automatic Vehicle Identification (AVI)

A fully integrated solution to accurately detect vehicles with RFID transponders that utilize any of the AVI tolling protocols resident to the U.S. The AVI subsystem integrates seamlessly with any manufacturer's single or multi-protocol AVI reader.

Toll Collection Reporting

A robust collection of reports containing a variety of toll operations and toll collection data in summary, as well as transaction level detail.

Maintenance Online Management System (MOMS)

Provides an automated method of creating, updating, tracking and reporting issues on preventive and corrective maintenance activities for site, facility, host equipment and applications.

Cash Management System

A suite of software tools for cash handling, vault management and bank deposit. Modules provide a system for complete tracking and audit of cash movement, collection and deposit within plaza operations.

Digital Video Audit System (DVAS)

An integrated, independent auditing solution for viewing lane and facility events as recorded motion video and still images.

Toll Management Console

A secure, role-based suite of software for toll operations to view traffic and transaction dashboards, system health and management tools.

For more information:

Call
615.988.8960

Follow Us

transcore.com

TRANSCORE®
Trusted Transportation Solutions