

With over 40 years of experience in pedestrian queuing, access control and perimeter security, Alvarado is uniquely qualified to provide the best solutions for your counting needs.

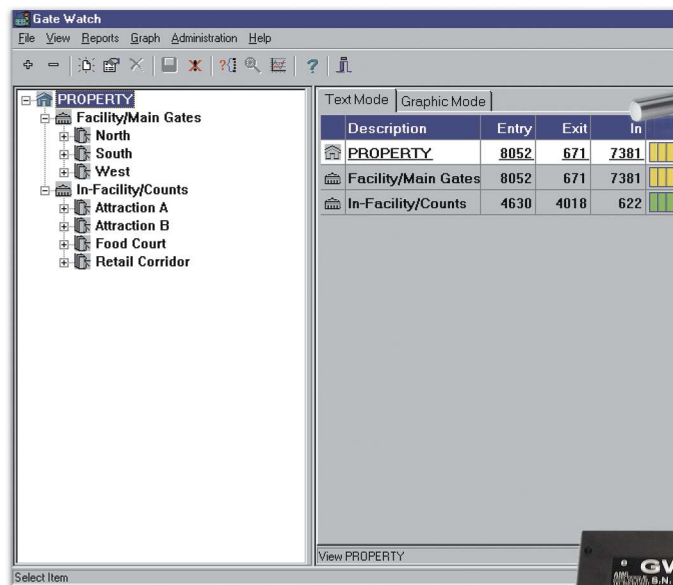


**SUPERVISOR 500CL Optical Turnstiles**

Alvarado designs, engineers and manufactures best-of-breed hardware, and also develops high level software and related firmware. We understand the important relationship between these components, and make all of the pieces work together in a seamless fashion - something that stand-alone hardware manufacturers simply cannot do.

We also have an edge over most software developers and integrators, because we actually produce the best available standard and custom hardware in-house. Whether you're looking for individual components, or a complete turnkey system, Alvarado offers the solutions, innovations and support you need.

**GATEWATCH Facility Counting Software**

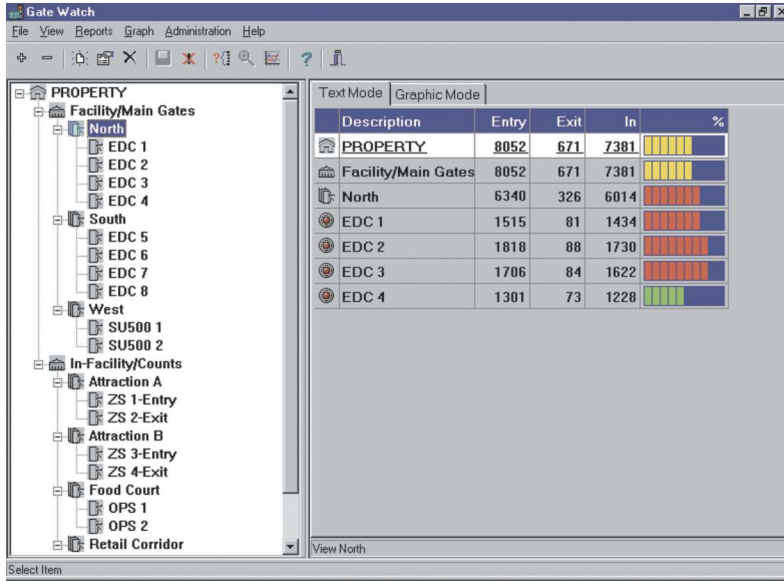


**EDC Bullnose Turnstile**



**GWCB 12-E Controller**





GateWatch provides real time entry/exit counts, so you'll always know how many people are currently in our facility. The program also breaks down counts by facility, gate or location and individual counting point.

## HOW IT WORKS

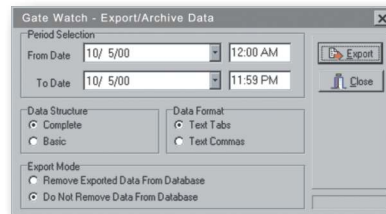
Counting devices, such as turnstiles, optical turnstiles and overhead counting systems are connected to a controller. As patrons pass through the counting device, a "count" signal is sent to the controller, which communicates the count to the GateWatch host PC via existing 10Base-T Ethernet LAN or through a serial connection. GateWatch stores each count and refreshes the on-screen display to provide a real time snapshot of facility activity.

GateWatch has many powerful standard features, such as the ability to export count information in ASCII format, as often as every minute, to any defined location. This allows users to create custom reports using standard Windows spreadsheet and database programs. The program can also send counts to pagers and other devices on existing networks.

## GATEWATCH™

Alvarado's GateWatch is a scalable, Windows based software program that provides real time computerized patron counts for entertainment venues and other facilities. It works with virtually any counting device, including turnstiles, optical turnstiles and overhead counting equipment.

GateWatch stores all count information by date and time, and provides a number of standard reports and graphs. This valuable information can help evaluate one of the most important aspects of a business -- exactly when patrons are coming through the door.

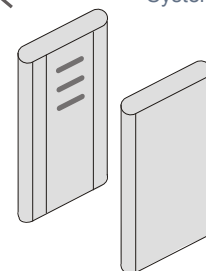
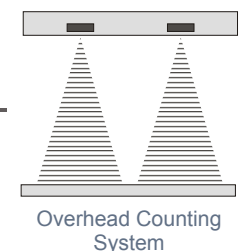
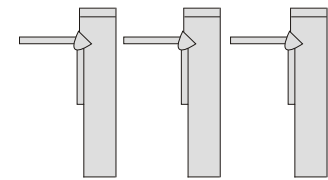


In addition to standard reports, data can be easily exported as a standard ASCII file.

## Typical GateWatch Configuration



10Base-T Ethernet or Serial Cable



**EDC**

**A**lvarado's EDC waist high turnstiles are the perfect choice for high volume counting applications.

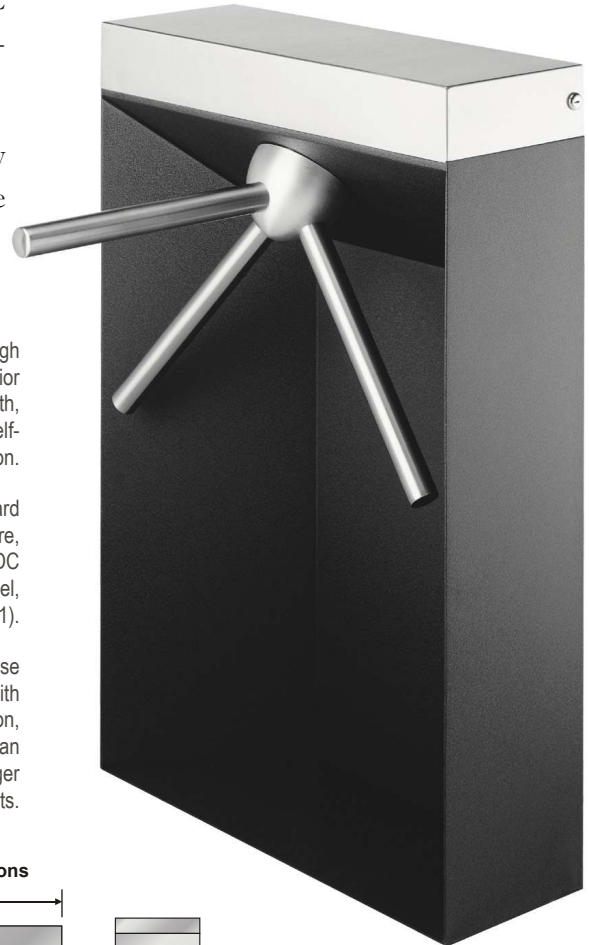
The EDC is America's premier waist high turnstile. It features stainless steel precision cast internal components, a very comfortable patron passage width and superior styling.

For installations where power is not available, the EDC uses a mechanical microswitch to output counts to a local battery powered digital counter and/or GateWatch.

When power is available, electrically controlled EDC models utilize a state-of-the-art controller with opto-interrupter rotation detection

This feature, offered exclusively by Alvarado, completely eliminates the need for mechanical microswitches and the accompanying adjustments that are often required.

**EDC Turnstile - Standard Model**



**ALVARADO MODEL EDC FEATURES**

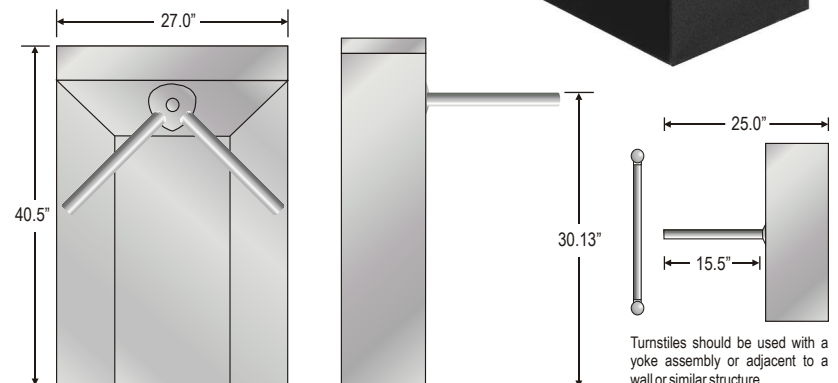
- \* Precision cast internal stainless steel components
- \* Streamlined design with no visible bolts or fasteners
- \* Electric models use advanced controller with opto-interrupter rotation detection
- \* Self centering arm rotation is hydraulically dampened to prevent backslap
- \* Available in color powder coat and stainless steel

Alvarado's EDC waist high turnstiles feature superior styling and a smooth, hydraulically dampened self-centering rotation.

In addition to the standard model EDC shown, here, Alvarado also offers the EDC in a sleek, "Bullnose" model, (see photo on page 1).

EDC and EDC Bullnose turnstiles are available with manual or electric operation, and can also be ordered as an Extended Model, with longer arms and extended cabinets.

**Standard EDC Dimensions**



## ZS / OPS SENSORS

**N**eed to know how many people are entering or exiting an area through a doorway or corridor? Our highly-advanced overhead sensor technology brings computerized counting into the 21st century, providing reliable, accurate counts of pedestrian traffic at key areas within large venues.


### MONITOR PATRON MOVEMENT WITHIN YOUR FACILITY

Now, for the first time, operators of theme parks, museums, casino resorts and other venues can actually analyze where patrons go once they've entered the facility.

A properly installed and configured overhead counting system from Alvarado can provide your organization with a wealth of important data, augmenting information gathered at the gate, turnstile or cash register. These counts are an excellent tool for evaluating pedestrian traffic patterns, comparing data with POS systems, and determining optimum staff levels.


### WHICH SYSTEM IS RIGHT FOR YOUR VENUE?

Two different types of advanced overhead counting systems are available, both fully compatible with Alvarado software and controllers. The best system for your facility depends on application issues such as the expected traffic pattern and ambient lighting conditions.



**MODEL "ZS" SENSORS**

Model ZS sensors transmit and receive data using reflective sensing, based on infrared transceiver technology. For typical installations, multiple sensors are mounted within one or more modular fixtures. These groups of sensors are divided into "zones". Movements through a zone are captured, processed and output as counts. Model ZS sensors can be used for bi-directional counting, and operate well in virtually all ambient lighting conditions.



**MODEL "OPS" SENSORS**

The OPS system utilizes artificial intelligence with a highly advanced system algorithm to track patrons as they move within the counting area. The system has the capability to "learn" the traffic pattern of an installation to effectively deal with extremely complex counting situations such as loitering crowds.

*ZS and OPS systems come with standard housings that conform nicely to most facility locations. Custom housings are also available to match various decors. Call Alvarado to discuss available options and configurations.*



## SUPERVISOR 500 / 500 CL

Optical Counting Turnstiles

**A**lvarado's Supervisor 500 series of barrier-free optical turnstiles offer extreme reliability and provide **highly accurate** patron counts.

Our Supervisor 500 optical turnstiles use multiple infrared sensors to detect and count people entering or leaving a facility or area.

The SU500 can differentiate between people, and objects that shouldn't be counted, such as umbrellas, bags or walkers. The sensors detect the direction of travel, as well as tailgating, and quickly or slowly moving patrons.

Because they are barrier-free, Supervisor 500 optical turnstiles have a much higher throughput than conventional turnstiles. The standard recommended passage width is 22". ADA compatible units with a 36" passage width are available. Consult with Alvarado regarding your application if you intend to use a 36" width SU500.

Supervisor 500 optical turnstiles have been tested and approved by several state gaming commissions for use on riverboat casinos. There are currently hundreds of operating units in the field.

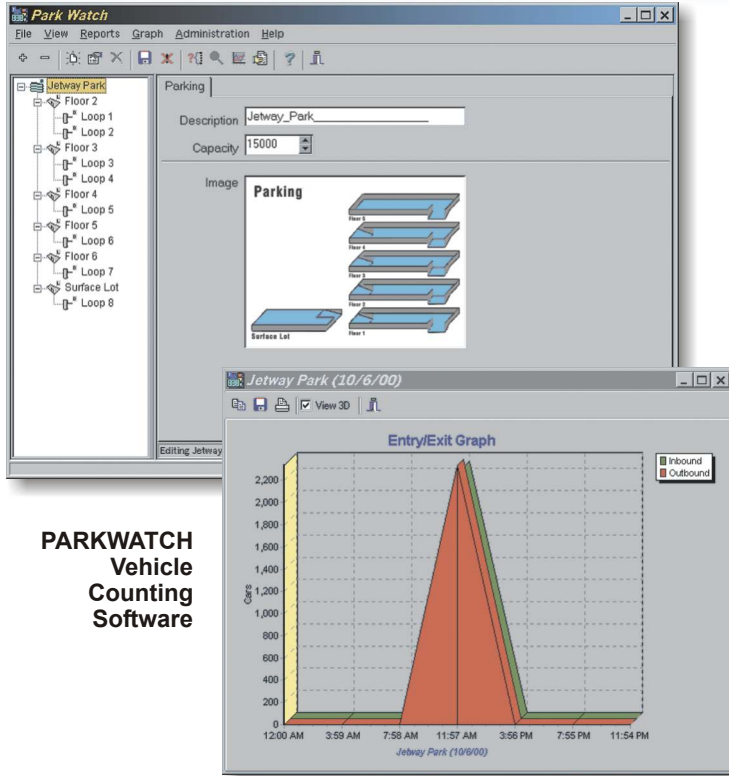
Power and communication ports on both sides of the SU 500 make it easy to daisy chain multiple units.



### SUPERVISOR 500 INSTALLATION OPTIONS

- \* *Permanent installation into solid flooring or concrete*
- \* *SU500 CL may be permanently installed using shared center cabinet (see photo - page 1)*
- \* *Portable installation with specially designed base plates (as shown above)*

*Alvarado's standard SU500 is designed for indoor use, or outdoors if protected from weather. SU500 CL is used for installation in weather, or when center lane configuration is desired. Both models available in a variety of colors and finishes. Consult with Alvarado regarding installations where the SU500 may be subjected to extreme heat or cold.*



**PARKWATCH  
Vehicle  
Counting  
Software**

**PARKWATCH™**  
Vehicle Counting System

Alvarado's ParkWatch system is the ideal solution for monitoring vehicle traffic within parking facilities.

The software works in conjunction with loops and loop detectors to provide counts of incoming/outgoing traffic, plus vehicle movement between floors.

The system can provide notification when the number of vehicles on a particular floor reaches a defined level. Vehicle counts can be monitored on-screen, and are also stored as historical data for reporting purposes.

**CONTROLLERS / SPECIALIZED HARDWARE**



**GWCB-12E-R  
Controller**

GWCB-12 controllers accept entry/exit counts from up to 12 counting devices. The standard model has 24 TTL I/O lines accessible via screw terminals, and two serial ports (RS-232 plus a configurable RS-232/485).

Model GWCB-12E adds built-in 10Base-T ethernet, so it may be plugged directly into a network hub for communication to the host PC.

Model GWCB-12E-R also includes 4 onboard relay outputs, to control external devices. An example of how this capability could be used includes activation of lights, buzzers or HVAC equipment when a defined capacity is reached.



**CUSTOM PANEL for  
Capacity Counting**

**CAPACITY COUNTING PANEL**

Alvarado offers a number of other innovative solutions, such as this control panel developed for ride loading at amusement parks. As patrons pass through turnstiles or optical turnstiles, the system counts down (or up) from a defined capacity. When close to capacity, the system provides local or remote notification (light, alarm, pager, etc.). By pressing a designated button, the mode of the display can be changed to provide information on the total number of rides or riders within a defined period.