ALVARADO
protecting assets and controlling the flow of people

SUPERVISOR 500
Barrier Free Optical Counting Turnstiles

Technical Specifications

Dimensions	Cabinet Height:	38.85” (987 mm)
	Cabinet Width:	4” (102 mm)
	Cabinet Length:	17” (432 mm)

Function

The SU500 is a barrier free optical counting turnstile that utilizes infrared sensors to provide highly accurate bi-directional pedestrian counting. The SU500 offers clear passage width or 26” (36” ADA). The SU500 utilizes multiple transmit/receive infrared sensors mounted inside the lane cabinets to detect the direction of patron travel and distinguish between objects that should be counted (such as people), and objects that should not be counted (such as umbrellas, walkers, or luggage). The lane sensors allow entrance and exit counts to be tracked separately.

Materials	Base	Formed and welded carbon steel. Powder coated Black.
	Internal Frame	Welded steel. The frames provide the mounting for the circuit boards and optical sensor components and are configurable for use as center cabinet frames in multi turnstile installations.
	End Panels	Formed and welded 14-gauge stainless steel. All exterior welds are ground smooth and polished.
	Side Panels	Formed and welded 14-gauge stainless steel. All exterior welds are ground smooth and polished.
	Lid	Made from 14-gauge Anodized aluminum provides an aesthetically pleasing look.
Available Finishes	Stainless Steel	All external fabricated materials are polished to a #4 satin finish.
	Powder Coat	Available in a variety of colors.

Power Supply 110 VAC, 60 Hz

Power Rating Maximum power consumption is 10 W per turnstile.

Operational Voltage Primary power is stepped down and rectified for low voltage 12 VDC and 5 VDC operation.

Count Outputs The SU500 can provide two separate count signals in the form of relay outputs for each direction of operation every time a person passes through the lane. Terminal strip connections are provided for this purpose. In addition to these dry contact outputs, the SU500 has the capability to display counts on a local counter mounted into the SU500 cabinet.

Available Count Output Summary:

Entry	2 dry contact signals 1 local counter
Exit	2 dry contact signals 1 local counter

Adjustable Violation Alarm	The SU500 can be configured to count in one or both directions. If the lane is set for only one passage direction, an alarm mounted inside the SU500 cabinet can be configured to sound when a passage is made in the unauthorized direction. The duration of the alarm is user adjustable.
Tailgate Sensitivity	DIP switches are provided to adjust the tailgate detection sensitivity setting.
Weight	Mast Cabinet is approximately 62 lbs. (28.12 kg) Center Cabinet is approximately 63 lbs. (28.57 kg) Slave Cabinet is approximately 60 lbs. (27.21 kg)
Shipping Details	SU500 cabinets are shipped fully assembled for easy installation. Each cabinet includes mounting hardware (anchors, bolts, washers, etc.) to mount the unit to a standard, level concrete floor. Alvarado ships products throughout the world.
Installation Details	All SU500 lanes must be installed on a firm foundation in a manner that allows the required power cabling to be pulled into the lane cabinets and required communication cables to be run between lane cabinets. The cabinets must be installed on level concrete. No embedded fasteners are needed for installation. Installation should be performed by a skilled installer following the manufacturer's directions and instructions (supplied with the unit).

Options

Portable Baseplate

Available in 26" and 36" passage widths. All SU500 baseplates are designed to allow for the "daisy chaining" of power and count data from lane to lane. When daisy chained, count data terminates out to a single DB25 connector. Contact Alvarado regarding daisy chain wiring specification details.

Transmitter/Receiver (Center Cabinet) Configuration

Multiple lane applications can be accomplished with center cabinets. Center cabinets are configured to house the infrared transmitters of one lane and the receiving infrared sensors of the other.

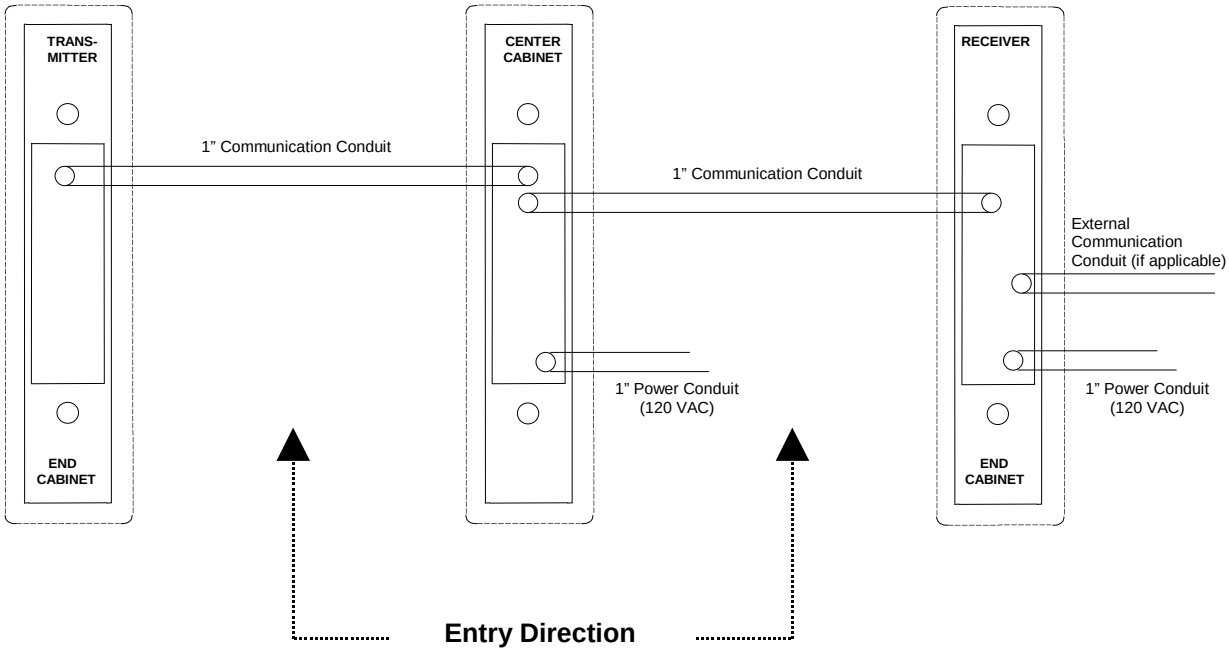
Local Counters

Lithium battery powered counters are installed in the end of the unit cabinets to provide a local count of patron passages. If counts in both the entry and exit directions are desired, two counters must be used, one installed in each end. When the unit is powered down, the registered counts are still visible on the counter. Both resettable and non-resettable counter options are available.

GateWatch

PC Based facility counting software that provides real time computerized counts and a complete database of count activity.

Conduit Requirements



High Voltage Power Conduit

- 1" power conduit for 120 VAC primary power must be run to the Receiver End Cabinet and each Center Cabinet.

Communication Conduit

- 1" conduit must be run to interconnect the cabinet sets that form each passage lane.
- The cables required to interconnect the cabinet sets that form each passage lane are provided with the turnstiles.
- Do not roll excess cabling.
- Conduits that interconnect a cabinet set can not exceed 10' in length.

Warranty

Alvarado Manufacturing Co., Inc. warrants the SU500, from defects in material or workmanship, for the period of ONE YEAR from date of shipment. Complete details of the warranty are available from Alvarado by request.