

Specification Sheet for ES811 Optical Turnstile

1.1 Bi-directional Optical Turnstiles

- A. Optical Turnstiles shall operate with the access control system utilizing a variety of reader technologies: i.e. proximity, weigand, mag stripe, bar code, or biometrics. The bollards of the turnstile shall be of sufficient size to accommodate the reader components. The walkway shall be configured to operate with bi-directional monitoring of traffic and shall provide a throughput of up to 30 people per minute, 1800 people per hour, dependent on the card reader technology and the response time of the access control system.
- B. The optical turnstile shall insure that one valid card read allows only one valid entry/exit by using an array of infrared sensors to determine the direction of travel and number of pedestrians passing through the passageway at one time. In the event of unauthorized entry or tailgating, the unit will latch into an alarm condition.
- C. The product shall be nonrestrictive to handicapped persons, and shall comply with the Americans With Disabilities Act of 1990 (ADA).
- D. All functions of the Optical Turnstiles shall be controlled by the MPU/Controller, a solid state microprocessor based sub-assembly engineered and manufactured specifically for this product application by the optical turnstile vendor. The MPU Controller sub-assembly shall be housed within the Optical Turnstile's bollard thereby eliminating the need for any external wiring of cable assemblies between the MPU/Controller and the bollard.
- E. The Optical Turnstile shall utilize audible and visual annunciators to provide communications with the pedestrian concerning walkway usage, access granted and access violations, as well as invalid card attempt. The visual annunciators shall be a Vertical Graphic Array (VGA) and a Horizontal Graphic Array (HGA). An audible tone at the HGA shall provide a signal to the pedestrian indicating access granted. A separate audible tone shall be used to indicate an access violation.
- F. The bollards shall use millwork construction (3/4" MDF) with all of the vertical panels secured through the use of extruded aluminum channels. These channels shall provide structural strength as well as form protective bumpers at the vertical exterior edges. The top surface of the bollard shall be constructed from an artificial marble substrate and the side material shall be covered with a plastic laminate.
- G. The Optical Turnstile bollard shall be secured to the finished floor through the use of 1/2" anchor bolts at each end of the assembly. Concealed access doors shall be provided at the interior side of the pedestals at each end to provide access to the anchoring plate.
- H. The unit shall provide a control bypass at the security office to allow the lane to be shunted for visitor passage through the turnstile in either direction.
- I. The Optical Turnstile and associated sub-assemblies shall be manufactured in the U.S.A.
- J. Manufacturer shall be Designed Security, Inc. Model ES811 series optical turnstile.