



Application Story

Unitronics Vision130™ Deploys Vehicle Barrier Systems

Barrier1 Systems, Inc., a manufacturer of security and force protection products, is dedicated to providing state of the art vehicle barriers and marine traffic barriers. They are responsible for the design, crash test certifications, fabrication, and installation of vehicle barrier systems to protect military forces, control vehicle access, protect critical infrastructure, and provide perimeter security.

Barrier1's "Vehicle Arrestor" is a one of a kind active vehicle barrier that deploys from below the roadway in 2 seconds, "gives" and absorbs energy upon vehicle impact. Crash tested multiple times to stop both ingress and egress



traffic, the Vehicle Arrestor has been certified to stop a 15,000 lb vehicle at 53 mph. The Unitronics Vision130™ was chosen by Barrier1 President, Michael Lamore, to control the many aspects of this system; from deployment of the vehicle barrier, retraction of the barrier, to controlling audio and visual signals, alarms, safety loop detectors and other ancillary systems associated with barrier operation.

The system is automated by the controller through two buttons, red and green, that when manually pushed by an onsite guard, deploy and retract the barrier. About 40 feet from the Vehicle Arrestor in both directions, are sensors that actually *block* the barrier from deploying until the controller receives the signal that vehicles are not overtop of the barrier. The PLC also



gives the vehicle in question a 2-3 second window of warning before the 90 foot barrier is deployed. After sensing the vehicle is *not* overtop of the barrier by a series of magnetic loops, the PLC triggers actuators to then lift the barrier, flash the caution lights, sound the sirens, turn traffic lights to RED, and

close the lid.

“The Unitronics Vision130™ provided the perfect solution for our need.” Said Barrier1 President Michael Lamore. “It was easy to program, user-friendly and was backed up with responsive tech support.”

For more information, please feel free to visit Unitronics’ website at www.unitronics.com.
If you are interested in Barrier1’s products, please visit their web site at: www.barrier1.us.