



**Avante International Technology,
Inc.**

70 Washington Road

Report to Accompany Application for FCC Certification

Per Title 47, Chapter 1, Part 2, Subpart J, Sec. 2.1033, Paragraph (b)

Equipment Name:

**Vote-trakker™ Electronic Voting Machine
Model EVC-308**

1. Circuit Functions and Operation Description

The Vote-trakker™ Model EVC308 is an electronic voting machine.

Purpose:

to present to a VOTER a series of contests (offices or decisions) and the available choices, allow the VOTER to select a predetermined number of the available choices, and compile the number of selections made for each available choice over a period of time. Results are compiled in a database which is duplicated in several storage devices attached to the computer. Results are also sent to a printer within the device.

Description of machine and operation:

Unit consists of a laptop computer running a Windows 2000 operating system and a software program interfaced to a touchscreen pointing device which the VOTER uses to make selections.

A Master Control Unit signal processor based on Philips Mifare Smartcard technology controls several sensing units and passes information to the program running in the laptop computer. The MCU clock runs at 11.0592 MHz

This unit interfaces with:

- A Smartcard Reader Antenna which communicates through with a Mifare chip attached to an antenna, both embedded in a plastic Smartcard approximately the size of a standard credit card. The signal operates at 13.560 MHz at a power level of 20 mw or less.
- An Infrared Sensor used to detect the presence of a person standing in front of the machine

- Two 5-volt counters which keep a count of the number of VOTERS using the machine

All electronics and power supplies including the antennae are housed in a shielded and grounded box to prevent spurious emissions of RF energy.