### Physical access control

- Door Coverage, where each door is secured with locking mechanisms.
  Doors mate and close in a near seamless manner.
- The locking method is hasp-type for either physical locks or tamper seals and security screws. Lockout hasps have been created to provide full security and double lock control. Any padlock and/or tamper seal can be used in the lockout hasp.
- Doors cover the following items:
  - Front I/O ports (2 separate doors)
  - Side I/O ports
  - Thermal Printer
  - Battery Slot
- Mechanical sensors always in operation on each access point to monitor and log activity

### Paper feed mechanism

- Physically capable of moving the ballot paper forward into the machine, across 2 image sensors, enabling complete capture of both sides of the ballot.
- Three different directions to eject the ballot after read: through a back slot, through a bottom slot, or return the ballot through the front slot.
- Multiple sheet detector, accomplished by an ultrasonic detector immune to ink markings on the ballot.

### Ballot sizes

- Fixed wide size of ballot: 8.5”
- Unlimited possible length of ballot
- Limited restrictions to locate voting areas within the ballot

### LCD Screen

- Quarter VGA display with an ultra high contrast background
- Built-in touch screen
- 5.7” diagonal viewing area
- Power conservation modal during battery power
- User friendly for voters, poll workers and authorities

### Internal Thermal Printer

- To print permanent record reports
- The printer is mounted to an internal component and located at the top back of the unit
- Is protected behind a lockable door and securely mounted to the unit
- Resolution: six dots/mm

### Power

- The unit operates with both external AC power or via on-board battery
- Battery Pack: the unit can accommodate a Lithium Ion or a NiMH battery
- Power status constantly displayed on the LCD screen
- If AC is unavailable, the unit continues to operate running on the battery

### Electrical Standards Compliance

- Safety
- Electrical Fast Transient
- Lightning Surge
- Electrostatic Disruption
- Electromagnetic Radiation
- Electromagnetic Susceptibility
- Conducted RF Immunity
- Magnetic Fields RF Immunity
- Operating Environment
- Non-Operating Environment

### Administrator Access Key

- To access any of the administration functions of the Insight - Image CAST, an electronic security key has to make contact with the key reader
CAST, has a corresponding electronic ballot image stored for audit purposes

- All records added to the file are encrypted

Audit Trail files

- It contains a chronological list of all messages generated by the Insight -Image CAST.
- Stored on Compact Flash
- Includes: system startup messages, system self-diagnostic text messages, all administrator operations; all ballot cast, rejected and diverted, all voter notifications, all system errors, all messages generated by exception handlers, etc.

Software Validation

- Previous to process the election, the Insight -Image CAST is validated to ensure that it only contains certified software code, through software self-diagnostics to verify only properly signed files are in the firmware file system.

Self Diagnose

- Set of internal diagnostics and Software Verifications
- Check that each major component is working correctly (motors, sensors, displays, printer, memory, etc.)
- Checks that no ballots are currently in the paper path
- Ensures proper software is loaded
- Ensures that unauthorized access has not occurred
- If tests are not passed, the machine reports an error and will not enable the unit to tabulate ballots

Administrative operational mode

- Allows the following functionalities:
  - Diagnostic tests
  - Ballot tests
  - Opening poll
  - Audiovote
  - Closing poll
  - Election Statistics
  - Ballot Review

Election Run operational mode

- Allows the following functionalities:
  - Insert a paper ballot
  - Invalid ballot
  - Mossed paper
  - Blank ballot
  - Overvoted ballot warning
  - Undervote warning
  - Ambiguous marking warning
  - Multiple sheet warning
  - Consecutive sheet
  - Ballot confirmation review
  - Ballot diversion
  - Switching languages
  - Switching from AC to power