DS200®

PRODUCT INFORMATION

The DS200 is a precinct-based ballot scanner and vote tabulator that combines the flexibility and efficiency of digital-imaging technology to support paper-based voting—taking traditional optical-scan ballot vote tabulation into the twenty-first century.

Digital media assets, including pictures, videos, security documents and our marketing one-sheets are available for download at:
essvote.com/download-media-assets-ds200

KEY FEATURES & BENEFITS

FLEXIBLE BALLOT FORMATTING

The DS200 supports standard ballot sizes up to 19 inches, in portrait and landscape format. The tabulator's flexibility provides election officials complete control of all ballot elements including fonts, text size and alignment.

EASE OF USE AND SETUP

The DS200 tabulator was designed for easy setup. A lid-up, power-on approach allows poll workers to easily open polls. The closing process is as simple as touching a button and locking the lid closed.

SECOND-CHANCE VOTING

The DS200 drastically reduces invalid ballots by detecting and identifying blank, overvoted and undervoted ballots. The unit's ballot review functions ensure that every ballot represents the voters' intent.

INTERACTIVE TOUCH SCREEN

The DS200 features an interactive 12-inch LCD color touch screen that provides immediate messages and prompts (both visual and auditory) to assist workers and voters. During voting, situations that require voter or poll-worker interaction are displayed clearly in plain text on the unit's touch screen.

PATENTED TECHNOLOGY

The DS200 uses ES&S-patented Intelligent Mark Recognition (IMR™) and Positive Target Recognition and Alignment Compensation (PTRAC®) software to ensure poorly marked ballots are read accurately and consistently—protecting voter intent. This precision improves the reliability of elections.

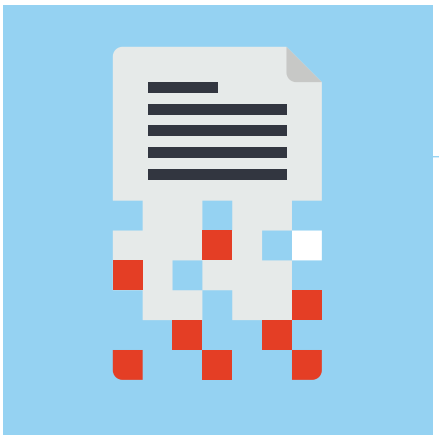
DS200®
Security Facts

PHYSICAL SECURITY & USER AUTHENTICATION

- Tamper-evident devices (wire seals, plastic pin seals, etc.) imprinted with identification numbers are used for securing the unit and alerting election officials of unauthorized access while the unit is in storage, transport, preparation and operation.
- The power button, critical hardware components, data ports and USB flash drives are protected behind lockable doors that can be sealed to alert election officials of unauthorized access. In addition, the case in which the unit travels and is stored, as well as the touch-screen display and USB flash drives, are secured with locks and tamper-evident seals. These physical locks and seals are a first line of defense, and minimize the effect of any unauthorized access.
- The operating software provides security access controls to limit and detect access to critical system components, guarding against system integrity loss and availability. Access codes are required for system access during equipment preparation, testing and operation. Additionally, units can be configured to require a passcode before the tabulator boots up. These safeguards cannot be bypassed or deactivated during system installation or operation, maintaining the integrity of the election data and audit record.

SYSTEM APPLICATION SECURITY

- The DS200 is a purpose-built voting device, designed, manufactured and programmed for its specific functions. Its system functions are only executable during election events, in the manner and order intended by election officials performing their duties.
- All administrative functions are limited to the touchscreen controls and data ports, and the device has no capability to write or allow change to the election program once installed.



ENCRYPTION & DATA INTEGRITY VALIDATION

» The DS200 will only accept certified and approved USB flash drives that contain encrypted data sealed with the correct, FIPS-compliant, signed data key. As such, once an election official installs election programming, it is not possible for a separate device to interface with the DS200 in order to overwrite or change the election definition or system firmware.

» The DS200 also generates a signed data key, ensuring that should unauthorized access of a unit occur, no other units can be affected through data transfer.All data generated during the polls is encrypted and digitally signed. Additional hash validations ensure data integrity remains intact.

» The DS200 is a paper-based system which maintains paper vote records and takes digital images of each processed ballot. When election results are acquired from the DS200, a double encryption procedure is employed that ensures results are secure from the time they are bundled by the DS200 tabulator until they are processed by the election results reporting program.

VERIFICATION

» The DS200 generates a detailed audit log of all actions and events that have occurred on the unit, which can be printed at any time. Every action and event, including access attempts, access of system functions and errors, is logged and timestamped.

» Audit logs may be saved to a USB flash drive.