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"Maintaining Voter Confidence. Enhancing the Voting Experience."

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The ES&S Model 100 is a precinct-based, voter-activated paper ballot counter and vote tabulator. Utilizing advanced Intelligent Mark Recognition (IMR) visible light scanning technology, the Model 100 Precinct Ballot Counter is a proven mainstay for jurisdictions worldwide utilizing precinct level voting and tabulation.

**Ensures Ballot Integrity**
To ensure voter intent and ballot integrity, the Model 100 alerts voters to over-voted, under-voted, and blank ballots. In the event of over-voted or under-voted situations, the Model 100 immediately returns the ballot to the voter for correction, displaying the incorrect face in question in the LCD display. The voter may then reinsert the Model 100 or accept the ballot as is, providing the voter with the opportunity to privately revise and reinsert their ballot.

**Security and Reliability**
The Model 100 with its rugged stainless steel chassis features two independent, lockable ballot containers to separately retain write-in and oval/arrow response area ballots. An emergency ballot compartment is also included to securely store ballots in the unlikely event of a battery failure or ballot display failure.

Approximately 31.5 miles of continuous operation can be achieved by a maintenance-free sealed battery charged by an internal power supply. An internal thermal printer is provided to print election results and document all audit logs for all transactions.

**State-of-the-Art Flexibility**
Driven by an Intel® processor, the Model 100 utilizes QNX® operating software which provides real-time resource management, true multi-tasking capability, and unparalleled election accuracy. Dual Contact Image Sensors enable both sides of the ballot to be accurately scanned simultaneously. The Model 100 efficiently processes right or left-hand oval and arrow response-area ballots, and ballots may be inserted without any orientation restrictions.

**Easy Election Reporting**
Immediate ballot data collection as well as internal thermal printing capability supports vote totals, and enables election officials to immediately transmit results to election central. The Model 100 comes equipped with dual PCMCIA slots—an optional 3DES program for transmitting results and two external serial ports for connecting to a wide array of external components. All election definition programs—actual vote tallies, and audit logs—are retained on the permanent memory card within each Model 100 until erased.

**Tested and Certified for Use**
The Model 100 has been fully tested by an independent testing authority, certified to meet or exceed the rigorous standards of the U.S. Federal Election Commission, and proven through use in thousands of actual elections worldwide. With over 20,000 Model 100 units in use, supporting elections throughout the world today, we look forward to supporting yours tomorrow.
Model 100 Specifications

**Size:** 14" (35.6 cm) W x 5" (12.7) H x 16" (40.6) D

**Weight:** 20.7 lbs. (9.4 kg) w/internal battery

**Scanner:** Visible Light Optical
**Activation Device:** Paper Ballot

**CPU:**
**Scanner:** Intel Tm 286EX 33 MHz
**System Memory:** 4 MB RAM, 512K Flash
**PCMCIA Memory Card:** 512K, 2 MB

**Scanners:**
- Visible Light: Yellow/Blue
- Wavelength: 560 nm
- Filtering: 1 mm
- Drive System: Precise Stepper Motor Drive

**Serial Ports:** Two RS232

**Memory Card Interface:** PCMCIA form

**User Interface:** 4-button membrane switch pane.

**Display Type:** Liquid Crystal Display

**Display Resolution:** 4 lines X.40 character.

**Printer Type:**
- Type: Thermal Printer
- (Citizen Tm Model LT-286)

**Display Resolution:** 8 dots/mm, 384 dots/line

** Bailot Types:**
- Left-side labels and arrows:
  - 14" (35.6 cm) width, 6 columns, 36 rows
  - 17" (43.2 cm) width, 4 columns, 41 rows

**Time/Date Stamping:** Internal real time Clock Chip for time/date stamping reports and audit logs.

**Power Management:** Internal battery floating on system to provide uninterrupted operation.

**Internal Battery Type:** Sealed rechargeable lead acid, 12V, 7.0 AH

**Power Supply and Voltage:** 40W
- Continuous Switching: 15VDC, 2.6A

**System Power Requirement:** 120VAC, 50/60 Hz, 2.4A

**Operating Environment**
- Temperature: 5°C to 35°C (41°F to 95°F)
- Humidity: Less than 95% non-condensing
- Vibration: 10G

**Storage Environment:**
- Temperature: -5°C to 20°C (-23°F to 68°F)
- Humidity: No requirement
- Vibration: 10G

**Transportation Environment**
- Temperature: -25°C to 42°C (-13°F to 109°F)
- Humidity: 5% to 95% non-condensing
- Vibration: 10G

**Accessory Items:**
- Paper글기
- PC cards
- Marker
- Pressurized lithium battery
- Cleaning pad and Isopropyl rubbing alcohol