

eScan™

precinct digital ballot scanning



 **HART**
intercivic™

eScan™

precinct digital ballot scanning

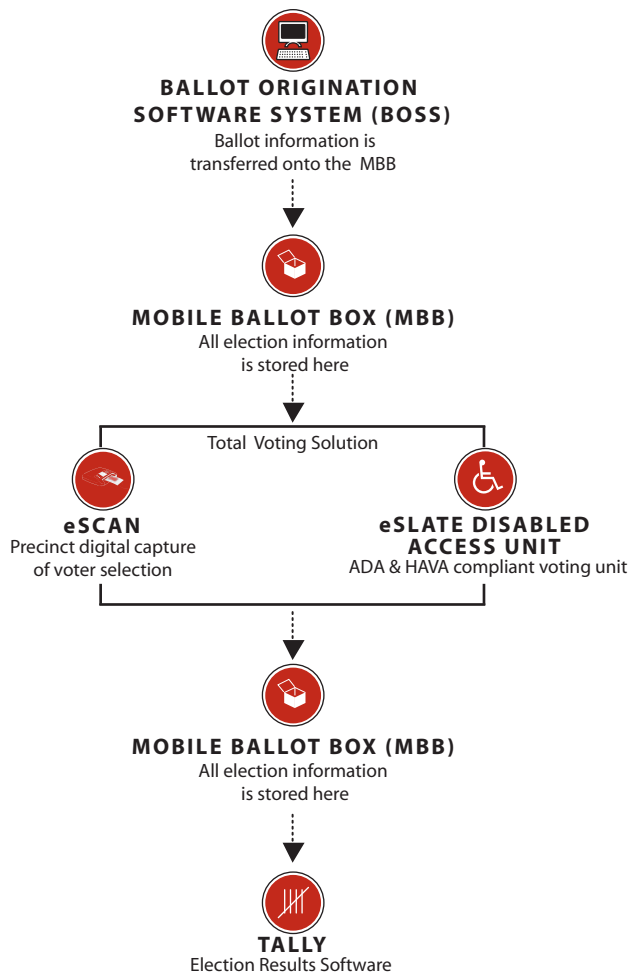


OVERVIEW

Introduced in 2005, the eScan was and remains today the only certified precinct digital scanner to be deployed in the United States. The eScan is a proven, purpose-built system that ensures secure, accurate and reliable paper-based voting.

eSCAN SUPPORTING SOFTWARE AND PROCESS

The eScan is part of Hart InterCivic's scalable voting solution. Hart's process is centered in a proven architecture that is used successfully in hundreds of elections nationwide every year.



- Ballot information is entered into Hart's Ballot Origination Software System (BOSS) and is transferred onto a memory card called a Mobile Ballot Box (MBB).
- Using the data on an MBB, ballots are printed using Hart's Ballot Now application.
- An MBB is inserted into the eScan so that the eScan recognizes ballots as they are scanned.
- The Voter feeds the ballot into the scanner and the eScan accepts the ballot or rejects the ballot if an error is found, such as an overvoted contest.
- Using the voted ballot information, the eScan creates a Cast Vote Record (CVR) which is recorded onto the MBB.
- The eScan distinctly manages write-in contests, creating a digital image of the write-in candidate's name and saving it as part of the CVR.
- Hart's Tally™ software reads and tabulates the CVRs from the MBB and allows for resolving any write-in candidates that were scanned on the eScan.

INTUITIVE VOTING EXPERIENCE

The eScan System provides an excellent opportunity for second-chance voting. eScan's capabilities include functionality to reject overvoted, undervoted and blank ballots thereby providing second chance voting at the precinct. With eScan, a voter has the opportunity to change or correct her ballot before it is cast and counted in compliance with Title III, Subtitle A, Section 301 of HAVA.

ENSURES EFFICIENCY

The eScan scans both sides of a ballot simultaneously in any orientation, scanning a ballot sheet in 1 second or less. Ballots are quickly accepted or rejected within 3 seconds.

FAST, FLEXIBLE REPORTING

Precinct results can be printed immediately after the close of polls. Jurisdiction-wide election results are then tabulated using Hart's Tally tabulation and reporting software. Tally aggregates votes and formats the results in a range of standard election reports. Tabulation results from eScan are easily integrated with voting results from eSlate units, Ballot Now or other voting systems.

SUPERIOR SERVICE & SUPPORT

Hart provides ballot definition, programming and printing services at affordable rates. Hart also offers an exclusive secure official ballot paper, which prevents unauthorized ballot duplication. Jurisdictions also have the option of defining and printing their own ballots using Hart's Ballot Origination Software System (BOSS) and Ballot Now software.



The eScan is securely attached to the Ballot Box.

A removable locking lid covers the eScan when in storage.

The eScan Ballot Box holds scanned ballots and provides an Emergency Ballot Box to hold unscanned ballots in the case of a power outage.

The eScan supports double-sided ballots. Ballots can be any of three different sizes 8½" x 11", 8½" x 14, and 8½" x 17".

eSCAN ACCESSORIES



Privacy Shield

Tamper Evident
Ballot Slot Cover

Tamper Evident
Storage Box



eSCAN HARDWARE & OPERATING SPECIFICATIONS

Absolute Maximum Ratings

(All voltages referenced to their respective GND pins)

(Use design parameters found in the “Electrical Characteristics” table for minimum, typical and maximum operating values)

Parameter	Maximum allowed value
AC Power input	252V
AC Power Frequency	64Hz
Operating Temperature	50 °C
Storage Temperature	60 °C

Stresses beyond those listed under “Absolute Maximum Ratings” may cause permanent damage to the device. These are stress ratings only, and functional operation of the device at these or any other conditions beyond those indicated in the “Electrical Characteristics” table of the specifications is not implied. Exposure to absolute maximum rating conditions for extended periods may affect device reliability.

Specifications

(Typical values derived from measurements taken at $T_A = 25^\circ\text{C}$, 115VAC, unless otherwise specified)

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
Operating Temperature Range	Full functional operation	0	25	50	°C
Storage Temperature Range	Storage Temperature System Off	-25		60	°C
AC Power input	AC Voltage power Required Range	100		240	V
AC Power Frequency	AC Voltage Frequency Range	47		63	Hz
Operating Supply Current	Standby Idle; Scanning Ballot	290		450	mA
Humidity – Operating	Operating Non-condensing Humidity	10		85	%RH
Humidity - Storage	Storage Non-condensing Humidity	5		95	%RH
Transport Speed	Ballot Scanning Speed		17.4		in/sec

Physical Specifications

(Typical values derived from measurements taken in inches, unless otherwise specified)

PARAMETER	TYP	UNITS
eScan - Length	17.0	inches
eScan - Width	14.75	inches
eScan - Height	4.07	inches
eScan - Weight	10.5	lbs
eScan ballot box's – Length	23.0	inches
eScan ballot box's – Width	23.0	inches
eScan ballot box's – Height	42.5	inches
eScan ballot box's – Weight (empty, with casters and cover)	65	lbs
eScan External Power Supply - Length	8.96	inches
eScan External Power Supply - Width	3.9	inches
eScan External Power Supply - Height	1.82	inches
eScan External Power Supply - Weight	1.75	lbs

ABOUT HART INTERCIVIC

The Hart InterCivic name is one you can trust to provide the solutions your jurisdiction needs. We know elections, and we've been serving state and local government for nearly a century.

15500 Wells Port Drive
Austin, TX 78728
800.223.4278
info@hartic.com
www.hartintercivic.com

