



# Accessible and Verifiable Voting Technology: Overview

The latest version of this chart appears at <http://www.verifiedvotingfoundation.org/accesscharts>

Some people are concerned that requirements for voter-verified paper records may delay implementation of the Help America Vote Act's (HAVA) provisions for accessible voting systems. Nothing could be farther from the truth. Equipment exists today offering both accessible and auditable voting for all voters; it is not necessary to choose between the two.

Not all accessible equipment is created equal, however. Some systems offer a wider range of options. Some offer accessible features on all units, while others provide those features only when required. Demonstrations of auditable and accessible voting equipment have taken place from New Jersey to Oregon in recent months. Some vendors have worked with accessibility advocates to develop cross-disability access and broaden the range of available features and options.

The first chart below summarizes which accessibility and verifiability categories each voting technology model makes available. The accessibility categories on the first chart link to separate charts showing more specific accessibility features for each accessibility category.

<a href="#">Vendor</a>	Model	<a href="#">Vision [chart]</a>	<a href="#">Dexterity [chart]</a>	<a href="#">Mobility [chart]</a>	<a href="#">Hearing [chart]</a>	<a href="#">Cognitive [chart]</a>	<a href="#">All Units Accessible</a>	<a href="#">VVPR on All?</a>
<a href="#">AccuPoll</a>	<a href="#">AVS 1000</a> <sup>1</sup>	partial	partial	minimal	complete	complete	yes	always
<a href="#">AutoMARK (ES&amp;S)</a>	<a href="#">ballot marking device</a> <sup>2</sup>	complete	complete	minimal	partial	partial	yes	always
<a href="#">Avante</a>	<a href="#">Vote Trakker</a> <sup>3</sup>	partial	partial	partial	none	minimal	yes	always
<a href="#">Avante</a>	<a href="#">Vote Trakker Full Face</a> <sup>4</sup>	partial	partial	minimal	none	minimal	yes	always
<a href="#">Diebold</a>	<a href="#">AccuVote TS</a> <sup>5</sup>	minimal	minimal	complete	complete	minimal	no	optional
<a href="#">Diebold</a>	<a href="#">AccuVote TSX</a> <sup>6</sup>	partial	minimal	partial	none	minimal	no	optional
<a href="#">ES&amp;S</a>	<a href="#">iVotronic</a> <sup>7</sup>	partial	minimal	partial	none	minimal	no	optional
<a href="#">ES&amp;S</a>	<a href="#">iVotronic LS</a> <sup>8</sup>	partial	minimal	none	partial	partial	no	optional
<a href="#">Hart Intercivic</a>	<a href="#">eSlate</a> <sup>9</sup>	partial	partial	partial	complete	complete	no	optional
<a href="#">Populex</a>	<a href="#">Digital Paper Ballot</a> <sup>10</sup>	partial	partial	none	partial	minimal	no	optional
<a href="#">Sequoia</a>	<a href="#">AVC Edge</a> <sup>11</sup>	partial	minimal	partial	minimal	partial	no	optional

### **Key to Overview Chart:**

- A. "Vision" = The voting process shall be accessible to voters with visual disabilities, including partial vision, poor vision, color blindness, and blindness.<sup>12</sup>
- B. "Dexterity" = The voting process shall be accessible to voters who lack fine motor control or the use of their hands. All keys and controls should be operable with one hand and not require strong grasping, pinching, or twisting of the wrist.<sup>13</sup>
- C. "Mobility" = The voting process shall be accessible to voters who use mobility aids, including wheelchairs. All controls should be within reach of the voter.<sup>14</sup>
- D. "Hearing" = The voting process shall be accessible to voters with hearing disabilities, providing both audio and visual cues to the voter. Also no voting station will require speech for its operation.<sup>15</sup>
- E. "Cognitive" = The voting process shall be accessible to voters with cognitive disabilities. All voters should be able to negotiate the process effectively, efficiently, and comfortably.<sup>16</sup>
- F. "All Units Accessible" reflects whether the accessibility features are on each unit, or whether they are optional add-ons.
- G. "VVPR on All?" indicates whether the voter-verified paper record audit feature is available as part of every device, or whether it is an optional add-on.

### **Footnotes for Overview Chart:**

1. <http://www.accupoll.com/TheAccuPollAdvantage/Brochures/accessibility.pdf>
2. <http://www.essvote.com/HTML/docs/AutoMark.pdf> (Note: Some people maintain that ballot-marking devices are not accessible to mobility-impaired individuals and dexterity-impaired individuals because many of them are not able to move the paper ballot from the ballot-marking device to a secure ballot box. However, the AutoMARK ballot-marking device can release the marked ballot into a [privacy sleeve \(mirror\)](#) to maintain the secrecy of the vote during handling by a poll worker. A voter may also request a "visually impaired ballot" which has no plain text on it (Lou Dedier of Automark, San Francisco mock election, August 10, 2005). Many dexterity-impaired individuals use a gripper jaw to move paper ballots. Volume 1, Section 2.2.7.2.2.5, of the Election Assistance Commission's draft Voluntary Voting System Guidelines, states that voting technology vendors should make provisions for voters who are blind to submit the ballot themselves without the help of an election administrator.)
3. <http://www.vote-trakker.com/White%20Papers/ACCESSIBLE%20VOTING%20with%20voter%20verifiable%20paper%20records%20in%20DRE%20Voting%20System.pdf> and [http://www.vote-trakker.com/accessible\\_optical\\_voting.html](http://www.vote-trakker.com/accessible_optical_voting.html)

4. <http://www.vote-trakker.com/White%20Papers/fullfaceballottouchscreensystem.pdf> and [http://www.vote-trakker.com/accessible\\_optical\\_voting.html](http://www.vote-trakker.com/accessible_optical_voting.html)
5. [http://www6.diebold.com/dieboldes/accuvote\\_ts.htm](http://www6.diebold.com/dieboldes/accuvote_ts.htm)
6. [http://www6.diebold.com/dieboldes/accuvote\\_tsx.htm](http://www6.diebold.com/dieboldes/accuvote_tsx.htm)
7. <http://www.essvote.com/HTML/docs/iVotronic.pdf>
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9. [http://www.hartintercivic.com/files/accessible\\_DLA\\_12\\_rev.pdf](http://www.hartintercivic.com/files/accessible_DLA_12_rev.pdf)
10. [http://www.populex.com/DPB\\_Intro.htm](http://www.populex.com/DPB_Intro.htm)
11. <http://www.sequoiavote.com/docs/AVCEdge.pdf>
12. <http://www.verifiedvotingfoundation.org/downloads/v1s2.pdf> pp.16-18
13. <http://www.verifiedvotingfoundation.org/downloads/v1s2.pdf> p.25
14. <http://www.verifiedvotingfoundation.org/downloads/v1s2.pdf> p.26
15. <http://www.verifiedvotingfoundation.org/downloads/v1s2.pdf> p.30
16. <http://www.verifiedvotingfoundation.org/downloads/v1s2.pdf> pp.30,34

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