



Accessible and Verifiable Voting Technology: Cognitive

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

<u>Vendor</u>	<u>Model</u>	<u>Synched Audio & Video</u>	<u>Help Button</u>	<u>Language Translations</u>	<u>Additional Features</u>	<u>All Units Accessible</u>	<u>VVPR on All?</u>
AccuPoll	AVS 1000 ¹	yes ¹	yes ²	yes ³	-	yes	always
AutoMARK (ES&S)	ballot marking device ⁴	yes ⁵	-	yes ⁶	-	yes	always
Avante	Vote Trakker ⁷	no ⁸	no ²	yes ⁷	-	yes	always
Avante	Vote Trakker Full Face ⁹	no ¹⁰	no ²	yes ⁹	-	yes	always
Diebold	AccuVote TS ¹¹	no ⁸	no ¹²	yes ¹¹	-	no	optional
Diebold	AccuVote TSX ¹³	-	-	yes ¹³	-	no	optional
ES&S	iVotronic ¹⁴	no ⁸	no ²	yes ¹⁵	-	no	optional
ES&S	iVotronic LS ¹⁶	-	yes ¹⁶	yes ¹⁶	full-face ballot	no	optional
Hart Intercivic	eSlate ¹⁷	yes ⁸	yes ²	yes ¹⁸	-	no	optional
Populex	Digital Paper Ballot ¹⁹	yes ²⁰	-	yes ¹⁹	-	no	optional
Sequoia	AVC Edge ²¹	planned ²²	yes ²	yes ²³	-	no	optional

Key to Cognitive Chart:

- A. "Synched Audio & Video" = When the voter uses the audio option, text will appear on the screen at the same time it is played through the audio.
- B. "Help Button" = A button on the voting machine, usually labeled help, that voters can press to call a poll worker for assistance.
- C. "Language Translations" = A language translation option for voters who speak languages other than english. Regardless of the language, candidate names shall be displayed or pronounced in English on all ballots. For written languages that do not use Roman characters, the ballot shall include transliteration of candidate names into the relevant language.

Footnotes for Cognitive Chart:

1. <http://www.accupoll.com/TheAccuPollAdvantage/Brochures/accessibility.pdf>
2. http://www.capc.umd.edu/rpts/md_evote_ContempVotingMach.pdf p.9
3. <http://www.accupoll.com/TheAccuPollAdvantage/Brochures/avs1000.pdf> p.2
4. <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.)
5. <http://vote.nist.gov/NISTEACResaultest.pdf>
6. <http://www.essvote.com/HTML/products/automark.html>
7. <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
8. <http://www.cvfieldsmbp.org/Voting%20Technology%20for%20People%20With%20Disabilities.pdf> p.32 of the document and p.42 of the PDF file

9. <http://www.vote-trakker.com/White%20Papers/fullfaceballottouchscreensystem.pdf> and http://www.vote-trakker.com/accessible_optical_voting.html
10. [Email letter from Rick Gleim of Avante](#), August 1, 2005.
11. http://www6.diebold.com/dieboldes/accuvote_ts.htm
12. <http://www.cs.umd.edu/~bederson/voting/umd-dre-report.pdf>
13. http://www6.diebold.com/dieboldes/accuvote_tsx.htm
14. <http://www.essvote.com/HTML/docs/iVotronic.pdf>
15. http://www.srgelections.com/ivotronic/ivotronic_details.htm
16. http://www.essvote.com/HTML/docs/ESS_iVotronic_LS.pdf
17. http://www.hartintercivic.com/files/accessible_DLA_12_rev.pdf
18. http://www.uhavavote.org/vendorfair/survey_results/hart_4.5.doc p.1
19. http://www.populex.com/DPB_Intro.htm
20. Missouri Assistive Technology Council (<http://www.at.mo.gov/>) accessibility comparison table created by Diane Cordry Golden, Spring 2005.
21. <http://www.sequoiaivote.com/docs/AVCEdge.pdf>
22. Sequoia presentation by Ross Travis at the mock election sponsored by the San Francisco Department of Elections, August 10, 2005.
23. <http://www.acb.org/resources/votingbook1.html#ar14> Sequoia AVC Edge factsheet

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