



Clear Ballot

ClearVote 2.3

ClearVote Approved Parts List

ClearVote Approved Parts List

Clear Ballot Part Number: 100101-10020

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Document history

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Preface

This section defines the purpose of this document.

About this document

This document provides information about hardware and software approved for ClearVote systems and complies with the *Voluntary Voting System Guidelines (VVSG) 2005*, Volume 1, Section 4.3.1.

Intended audience

This document is for election officials and election staff who are responsible for operations and maintenance before, during, and after an election. Clear Ballot personnel also use this document to support election officials and election staff.

References to ClearVote products

A ClearVote® system can comprise the ClearAccess®, ClearCast®, ClearCount®, and ClearDesign® products. Jurisdictions are not required to purchase all products. You can ignore references to any ClearVote products that are not part of your voting system. Also ignore implementation options that are not relevant to your policies and procedures.

Contact us

Clear Ballot Group welcomes your feedback on our documentation. Please send comments to Documentation@ClearBallot.com.

If you have questions about using your product, contact your Clear Ballot representative.

Approved components

This document provides details of approved computers, scanners, printers, and other components. Clear Ballot has tested these specific components and recommends their use or the use of equivalent products. Consult with Clear Ballot and obtain permission from your state election authorities if you would like to use an equivalent product that is not specified in this *Approved Parts List*.

This list is not intended to be comprehensive of every device required to operate the voting system. For example, peripherals such as keyboards, monitors, mice, and cables are not included. The omission of such ancillary items from the *Approved Parts List* does not preclude their use with the voting system.

1. ClearAccess Inspiron configuration

The following components are approved for use with ClearAccess.

Table 1. ClearAccess Inspiron configuration

Item	Model Number	Description
ClearAccess Component: Computer	Dell Inspiron 7573	All-in-One laptop with Intel Core i5 processor, 500 GB storage, and 8 GB RAM.
ClearAccess Component: Printer	Oki Data B432dn	Duplex laser printer configured for printing up to 14-22" ballots depending on printer configuration and firmware.
ClearAccess Component: External UPS	APC SMT2200	External Uninterruptible power supply ClearAccess stations for ClearAccess 1.4.
ClearAccess Component: Accessible Keypad	Storm Interface EZ08-22201	Accessible keypad input device for alternative entry for ClearAccess 1.4.
ClearAccess Mitigation: ESD Copper tape	Tapes Master TM-36-COPP-1M-3	Copper tape for Oki Data printer for ESD mitigation for ClearAccess 1.4 and ClearAccess 1.5.
ClearAccess Mitigation: ESD acrylic cover	Clear Ballot CV-1180-1.4-1	Acrylic plastic cover for APC 2200 for ESD mitigation for ClearAccess 1.4 and ClearAccess 1.5.
ClearAccess Mitigation: ESD 0.75" polyimide film	Kapton S-17213	3/4 inch wide, 2 mil thick Kapton polyimide film applied to APC 2200 UPS for ClearAccess 1.4.
ClearAccess Mitigation: EMI ferrite	Würth Elektronik 742-416-33S	Ferrite for Oki Data B432dn printer power cable for ClearAccess 1.4.

2. ClearAccess OptiPlex configuration

The following components are approved for use with ClearAccess.

Table 2. ClearAccess OptiPlex configuration

Item	Model Number	Description
ClearAccess Component: Computer	Dell OptiPlex 5250	All-in-One touchscreen with Intel Core i5 processor, 500 GB storage, and 8 GB RAM.
ClearAccess Component: Printer	Oki Data B432dn	Duplex laser printer configured for printing up to 14-22" ballots depending on printer configuration and firmware.
ClearAccess Component: External UPS	APC SMT2200	External Uninterruptible power supply ClearAccess stations for ClearAccess 1.4.
ClearAccess Component: Accessible Keypad	Storm Interface EZ08-22201	Accessible keypad input device for alternative entry for ClearAccess 1.4.
ClearAccess Mitigation: ESD Copper tape	Tapes Master TM-36-COPP-1M-3	Copper tape for Oki Data printer for ESD mitigation for ClearAccess 1.4 and ClearAccess 1.5.
ClearAccess Mitigation: ESD acrylic cover	Clear Ballot Group CV-1180-1.4-1	Acrylic plastic cover for APC 2200 for ESD mitigation for ClearAccess 1.4 and ClearAccess 1.5.
ClearAccess Mitigation: ESD 0.75" polyimide film	Kapton S-17213	3/4 inch wide, 2 mil thick Kapton polyimide film applied to APC 2200 UPS for ClearAccess 1.4.
ClearAccess Mitigation: EMI ferrite	Würth Elektronik 742-416-33S	Ferrite for Oki Data B432dn printer power cable for ClearAccess 1.4.

3. ClearAccess X-Series configuration

The following components are approved for use with ClearAccess.

Table 3. ClearAccess X-Series Configuration

Item	Model Number	Description
ClearAccess Component: Computer	elo ESY20X2 (X-Series)	All-in-One touchscreen with Intel Celeron processor, 128 GB storage, and 4 GB RAM.
ClearAccess Component: Printer	Oki Data B432dn	Duplex laser printer configured for printing up to 14-22" ballots depending on printer configuration and firmware.
ClearAccess Component: External UPS	APC SMT2200C	External Uninterruptible power supply ClearAccess stations for ClearAccess 2.0.
ClearAccess Component: Accessible Keypad	Storm Interface EZ08-22201	Accessible keypad input device for alternative entry for ClearAccess 1.4-2.0.
ClearAccess Component: Barcode scanner	Zebra Technologies DS457-SR	Barcode scanner for ballot style selection.
ClearAccess Mitigation: ESD acrylic cover	Clear Ballot CV-1180-1.4-1	Acrylic plastic cover for APC 2200 for ESD mitigation for ClearAccess 1.4 and ClearAccess 1.5.
ClearAccess Mitigation: ESD copper tape	Tapes Master TM-36-COPP-1M-3	Copper tape for Oki Data printer for ESD mitigation for ClearAccess 1.4 and ClearAccess 1.5.
ClearAccess Mitigation: ESD 0.75" polyimide film	Kapton S-17213	3/4 inch wide, 2 mil thick Kapton polyimide film applied to APC 2200C UPS for ClearAccess 1.5.

4. ClearAccess E-Series configuration

The following components are approved for use with ClearAccess.

Table 4. ClearAccess E-Series configuration

Item	Model Number	Description
ClearAccess Component: Computer	elo ESY15E2 (E-Series)	All-in-One touchscreen with Intel Celeron processor, 128 GB storage, and 4 GB RAM.
ClearAccess Component: Printer	Oki Data B432dn	Duplex laser printer configured for printing up to 14-22" ballots depending on printer configuration and firmware.
ClearAccess Accessory: External UPS	CyberPower PR1500RT2U	External uninterruptible power supply for use with ClearAccess stations with the Oki Data printer.
ClearAccess Component: Accessible Keypad	Storm Interface EZ08-22201	Accessible keypad input device for alternative entry for ClearAccess 1.4-2.0.
ClearAccess Component: Accessible Keypad	Storm Interface EZ08-22200	Accessible keypad input device for alternative entry for ClearAccess 2.0+
ClearAccess Component: Barcode scanner	Zebra Technologies DS457-SR	Barcode scanner for ballot style selection.
ClearAccess Mitigation: EMI ferrite	Würth Elektronik 742-711-32	Ferrite for keypad data cable for ClearAccess 2.0.
ClearAccess Mitigation: EMI ferrite	Würth Elektronik 742-712-22	Ferrite for USB printer cable for ClearAccess 2.0.
ClearAccess Mitigation: EMI ferrite	Würth Elektronik 742-717-22	Ferrite for USB printer cable, touchscreen power cord, keypad data cable, and barcode scanner cable for ClearAccess 2.0.
ClearAccess Mitigation: ESD 1" polyimide film	Clear Ballot Group CV-1210-2.0	1 inch wide, 2 mil thick polyimide film applied to Oki Data B432dn printer for ClearAccess 2.0.
ClearAccess Mitigation: ESD 2" polyimide film	Clear Ballot Group CV-1211-2.0	2 inch wide, 2 mil thick polyimide film applied to elo touchscreen for ClearAccess 2.0.

Table 4. ClearAccess E-Series configuration (continued)

Item	Model Number	Description
ClearAccess Mitigation: ESD 4" polyimide film	Clear Ballot Group CV-1212-2.0	4 inch wide, 2 mil thick polyimide film applied to elo touchscreen and CyberPower UPS for ClearAccess 2.0.

5. ClearAccess eloPOS tabletop configuration

The following components are approved for use with ClearAccess.

Table 5. ClearAccess eloPOS tabletop configuration

Item	Model Number	Description
ClearAccess Component: Computer	elo EPS15E3 (eloPOS)	All-in-One touchscreen with Intel Celeron processor, and 128 GB storage, 4 GB RAM.
ClearAccess Component: Printer	Oki Data B432dn	Duplex laser printer configured for printing up to 14-22" ballots depending on printer configuration and firmware.
ClearAccess Component: External UPS	CyberPower PR1500RT2U	External uninterruptible power supply for use with ClearAccess stations with the Oki Data printer.
ClearAccess Component: Accessible Keypad	Storm Interface EZ08-22200	Accessible keypad input device for alternative entry for ClearAccess 2.0+
ClearAccess Component: Barcode scanner	elo UM600149	Barcode scanner for ballot style selection.

6. ClearAccess eloPos box configuration

The following components are approved for use with ClearAccess.

Table 6. ClearAccess eloPos box configuration

Item	Model Number	Description
ClearAccess Component: Computer	elo EPS15E3 (eloPOS)	All-in-One touchscreen with Intel Celeron processor, 128 GB storage, 4 GB RAM.
ClearAccess Component: Printer	Oki Data B432dn	Duplex laser printer configured for printing up to 14-22" ballots depending on printer configuration and firmware.
ClearAccess Component: Printer	Lexmark MS-521dn	Duplex laser printer configured for printing up to 14-22" ballots depending on printer configuration and firmware.
ClearAccess Component: External UPS	CyberPower PR1500RT2U	External uninterruptible power supply for use with ClearAccess stations with the Oki Data printer.
ClearAccess Component: External UPS	APC SRT1500RMXLA	External uninterruptible power supply for use with ClearAccess stations with the Lexmark printer.
ClearAccess Component: Accessible Keypad	Storm Interface EZ08-22200	Accessible keypad input device for alternative entry for ClearAccess 2.0+.
ClearAccess Component: Barcode scanner	elo UM600149	Barcode scanner for ballot style selection.
ClearAccess Component: Transportation and Setup Case	Clear Ballot Group 62311-1-1	Case for ClearAccess elo touchscreen computer, Oki Data printer, headphones, keypad, and associated cables.
ClearAccess Component: Transportation and Setup Case	Clear Ballot Group 62312-1-1	Case for ClearAccess elo touchscreen computer, Lexmark printer, headphones, keypad, and associated cables.
ClearAccess Mitigation: EMI ferrite	Laird 28A2029-0A2	Ferrite for APC SRT1500RMXLA external UPS power cable.

Table 6. ClearAccess eloPos box configuration (continued)

Item	Model Number	Description
ClearAccess Mitigation: EMI ferrite	Laird 28A2029-0A0	Ferrite for elo touchscreen computer power cable. Used only in Lexmark MS-521dn printer configuration.
ClearAccess Mitigation: EMI ferrite	Laird 28A5776-0A2	Ferrite for Lexmark MS-521dn printer power cable.
ClearAccess Mitigation: EMI ferrite	Takachi Electronics TFT152613N	Ferrite for Oki Data B432dn printer power cable.
ClearAccess Mitigation: EMI ferrite	Würth Elektronik 742-712-22	Ferrite for USB printer cable.

7. ClearCast tabletop configuration

The following precinct scanner models are approved for use with the ClearCast tabletop configuration.

Table 7. Components for the ClearCast tabletop configuration

Item	Model Number	Description
ClearCast Component: Precinct Scanner	Clear Ballot Group ClearCast Model D Revision 5	Precinct scanner with Intel Celeron Processor, 8 GB RAM, 64 GB storage.
ClearCast Component: Collapsible Ballot Bag	Clear Ballot Group CV-1032-1.5	Collapsible ballot bag for tabletop voting with the ClearCast tabletop configuration. Holds approximately 750 ballots of standard ballot stock.
ClearCast Component: Collapsible Ballot Bag	Clear Ballot Group CV-1032-2.0	Collapsible ballot bag for tabletop voting with the ClearCast tabletop configuration. Holds approximately 750 ballots of standard ballot stock. Updated from CV-1032-1.5 to include wheels and pull-handle.
ClearCast Component: Shielded HDMI cable	Clear Ballot Group CC-2115-1.5	Internal 360-degree shielded HDMI cable for the ClearCast tabletop configuration monitor.
ClearCast Mitigation: EMI ferrite	Würth Elektronik 742-711-32	Internal ferrites used on power cable, data cable, and HDMI cable for the ClearCast tabletop configuration.
ClearCast Mitigation: EMI ferrite	Würth Elektronik 742-711-42	Internal ferrite used on power cable for the ClearCast tabletop configuration.
ClearCast Mitigation: EMI ferrite	Würth Elektronik 742-758-12	Internal ferrites used on data cables for the ClearCast tabletop configuration.
ClearCast Mitigation: EMI ferrite	Würth Elektronik 742-758-13	Internal ferrites used on power cables and USB cables for the ClearCast tabletop configuration.

8. ClearCast collapsible ballot box configuration

The following precinct scanner models (with minimum specifications) are approved for use with the ClearCast tabletop and collapsible ballot configuration.

Table 8. Components for the ClearCast collapsible ballot box configuration

Item	Model Number	Description
ClearCast Component: Precinct Scanner	Clear Ballot Group ClearCast Model D Revision 5	Precinct scanner with Intel Celeron Processor, 8 GB RAM, and 64 GB storage.
ClearCast Component: Collapsible Ballot Box	Clear Ballot Group CV-1033-1.5	Collapsible ballot box for free-standing voting with the ClearCast tabletop configuration or ClearCast Go. Holds approximately 2500 ballots of standard ballot stock.
ClearCast Component: Collapsible Ballot Box	Clear Ballot Group CV-1033-2.0	Collapsible ballot box for free-standing voting with the ClearCast tabletop configuration or ClearCast Go. Holds approximately 2500 ballots of standard ballot stock. Updated from CV-1033-1.5 to include more stable base and ClearCast Go support.
ClearCast Component: Shielded HDMI cable	Clear Ballot Group CC-2115-1.5	Internal 360-degree shielded HDMI cable for the ClearCast tabletop configuration monitor.
ClearCast Mitigation: EMI ferrite	Würth Elektronik 742-711-32	Internal ferrites used on power cable, data cable, and HDMI cable for the ClearCast tabletop configuration.
ClearCast Mitigation: EMI ferrite	Würth Elektronik 742-711-42	Internal ferrite used on power cable for the ClearCast tabletop configuration.
ClearCast Mitigation: EMI ferrite	Würth Elektronik 742-758-12	Internal ferrites used on data cables for the ClearCast tabletop configuration.
ClearCast Mitigation: EMI ferrite	Würth Elektronik 742-758-13	Internal ferrites used on power cables and USB cables for ClearCast tabletop configuration.

9. ClearCast Go collapsible ballot box configuration

The following scanner models (with minimum specifications) are approved for use with ClearCast.

Table 9. Components for the ClearCast Go collapsible ballot box configuration

Item	Model Number	Description
ClearCast Component: Precinct Scanner	Clear Ballot Group ClearCast Go	Precinct scanner with ARM Processor, 8 GB RAM, 64 GB storage.
ClearCast Component: Collapsible Ballot Box	Clear Ballot Group CV-1033-2.0	Collapsible ballot box for free-standing voting with the ClearCast tabletop configuration or ClearCast Go. Holds approximately 2500 ballots of standard ballot stock. Updated from CV-1033-1.5 to include a more stable base and ClearCast Go support.

10. ClearCast Go transport ballot box configuration

The following precinct scanner models (with minimum specifications) and transport ballot box are approved for use with ClearCast Go.

Table 10. Approved precinct scanner and transport box configuration for ClearCast Go

Item	Model Number	Description
ClearCast Component: Precinct Scanner	Clear Ballot Group ClearCast Go	Precinct scanner with ARM Processor, 8 GB RAM, 64 GB storage.
ClearCast Component: Transport Ballot Box	Clear Ballot Group 61220-1-1	Durable transportation ballot box for free-standing voting with ClearCast Model E. Holds approximately 3500 ballots of standard ballot stock.

11. ClearCast components, accessories, and consumables

The following consumables are approved for use with the ClearCast system.

Table 11. ClearCast components, accessories, and consumables

Item	Model Number	Description
ClearCast Component: USB flash drive	Corsair Flash PadLock (CMFPLA3B- 32GB)	Encrypted 32GB 3.0 USB flash drive to transport ClearVote files such as ADFs, BDFs, and PDFs.
ClearCast Component: USB flash drive	Corsair Flash Voyager GTX (CMFVYGTX3C-128GB)	Premium 128 GB USB 3.1 flash drives to transport ClearVote files such as ADFs, BDFs, and PDFs.
ClearCast Component: USB flash drive	Kingston DataTraveler Elite G2 (DTEG2/64GB)	Standard 64 GB 3.0 USB flash drive to transport ClearVote files such as ADFs, BDFs, and PDFs.
ClearCast Component: USB flash drive	SanDisk Ultra Flair (SDCZ73-032G-A46/G46)	Standard 32 GB 3.0 USB flash drive to transport ClearVote files such as ADFs, BDFs, and PDFs.
ClearCast Component: USB flash drive	SanDisk Extreme Go (SDCZ800-064G-G46)	Standard 64 GB 3.0 USB flash drive to transport ClearVote files such as ADFs, BDFs, and PDFs.
ClearCast Component: USB flash drive	SanDisk Extreme Pro (SDCZ880-128G-G46)	Premium 128 GB 3.0 USB flash drive to transport ClearVote files such as ADFs, BDFs, and PDFs.

12. ClearCount computers

The follow computer models (with minimum specifications) are approved for use as ClearCount computers.

Table 12. ClearCount computers

Item	Model Number	Description
ClearCount Component: CountServer	Dell PowerEdge R440	Server with Intel Xeon Silver processor, 16 TB storage, and 16 GB RAM.
ClearCount Component: CountServer	Dell PowerEdge T130	Server with Intel Xeon E3 processor, 4TB storage, and 8 GB RAM.
ClearCount Component: CountServer	Dell PowerEdge T140	Server with Intel Xeon E processor, 4 TB storage, and 8 GB RAM.
ClearCount Component: CountServer	Dell PowerEdge T330	Server with Intel Xeon E3 processor, 16 TB storage, and 16 GB RAM.
ClearCount Component: CountServer	Dell PowerEdge T440	Server with Intel Xeon Silver processor, 16 TB storage, and 16 GB RAM.
ClearCount Component: CountServer	Lenovo TS 140	Server with Intel Xeon E3 processor, 4 TB storage, and 4 GB RAM.
ClearCount Component: CountStation	Dell Latitude 5500	Laptop with Intel Core i7 processor, 500 GB storage, and 8 GB RAM.
ClearCount Component: CountStation	Dell Latitude 5580	Laptop with Intel Core i7 processor, 500 GB storage, and 8 GB RAM.
ClearCount Component: CountStation	Dell Latitude 5590	Laptop with Intel Core i7 processor, 500 GB storage, and 8 GB RAM.
ClearCount Component: CountStation	Dell Latitude 5511	Laptop with Intel Core i7 processor, 500 GB storage, and 8 GB RAM.
ClearCount Component: CountStation	Dell Latitude 5521	Laptop with Intel Core i7 processor, 500 GB storage, and 16 GB RAM.
ClearCount Component: CountStation	Dell OptiPlex 5250	All-in-One with Intel Core i7 processor, 500 GB storage, and 8 GB RAM.
ClearCount Component: CountStation	Dell OptiPlex 7440	All-in-One with Intel Core i7 processor, 500 GB storage, and 8 GB RAM.

Table 12. ClearCount computers (continued)

Item	Model Number	Description
ClearCount Component: CountStation	Dell OptiPlex XE3 SFF	All-in-One with Intel Core i5 processor, 1 TB storage, and 8 GB RAM.
ClearCount Component: CountStation	Dell Precision T3620	Desktop tower with Intel Core i7 processor, 1 TB storage, and 8 GB RAM.
ClearCount Component: ScanStation	Dell Latitude 5500	Laptop with Intel Core i7 processor, 500 GB storage, 8 GB RAM.
ClearCount Component: ScanStation	Dell Latitude 5511	Laptop with Intel Core i7 processor, 500 GB storage, 8 GB RAM.
ClearCount Component: ScanStation	Dell Latitude 5521	Laptop with Intel Core i7 processor, 500 GB storage, and 16 GB RAM.
ClearCount Component: ScanStation	Dell Latitude 5580	Laptop with Intel Core i7 processor, 500 GB storage, 8 GB RAM.
ClearCount Component: ScanStation	Dell Latitude 5590	Laptop with Intel Core i7 processor, 500 GB storage, 8 GB RAM.

13. ClearCount scanners

The following scanner models are approved for use with ClearCount.

Table 13. Approved scanner models for ClearCount

Item	Model Number	Description
ClearCount Component: Scanner	Fujitsu fi-6400	Medium capacity scanner recommended for 100k voters or less and ballot lengths up to 24".
ClearCount Component: Scanner	Fujitsu fi-6800	Large capacity scanner recommended for 100k voters or less and ballot lengths up to 24".
ClearCount Component: Scanner	Fujitsu fi-7180	Medium capacity scanner recommended for 25k voters or less and ballot lengths up to 14".
ClearCount Component: Scanner	Fujitsu fi-7800	Medium capacity scanner recommended for 100k voters or less and ballot lengths up to 24".
ClearCount Component: Scanner	Fujitsu fi-7900	Large capacity scanner recommended for 100k voters or less and ballot lengths up to 24".

14. ClearCount peripherals

The following peripheral components are approved for use with ClearCount.

Table 14. Approved peripheral components for ClearCount

Item	Model Number	Description
ClearCount Component: Backup UPS	APC SMT1500C	Uninterruptible power supply for CountServers.

15. ClearDesign computers

The following computer models (with minimum specifications) are approved for use with ClearDesign.

Table 15. ClearDesign computers

Item	Model number	Description
ClearDesign Component: DesignServer	Dell PowerEdge R440	Server with Intel Xeon Silver processor, 16 GB RAM, and 8 TB storage.
ClearDesign Component: DesignServer	Dell PowerEdge T130	Server with Intel Xeon E3 processor, 2TB storage, and 8 GB RAM.
ClearDesign Component: DesignServer	Dell PowerEdge T140	Server with Intel Xeon E processor, 8 GB RAM, and 2 TB storage.
ClearDesign Component: DesignServer	Dell PowerEdge T440	Server with Intel Xeon Silver processor, 16 GB RAM, and 8 TB storage.
ClearDesign Component: DesignServer	Dell PowerEdge T630	Server with Intel Xeon E5 processor, 1 TB storage, and 8 GB RAM.
ClearDesign Component: DesignServer	Lenovo TS 140	Server with Intel Xeon E3 processor, 4 TB storage, and 4 GB RAM.
ClearDesign Component: DesignStation	Dell Latitude 5500	Laptop with Intel Core i7 processor, 500 GB storage, and 8 GB RAM.
ClearDesign Component: DesignStation	Dell Latitude 5511	Laptop with Intel Core i7 processor, 500 GB storage, and 8 GB RAM.
ClearDesign Component: DesignStation	Dell Latitude 5521	Laptop with Intel Core i7 processor, 500 GB storage, and 16 GB RAM.
ClearDesign Component: DesignStation	Dell Latitude 5580	Laptop with Intel Core i7 processor, 500 GB storage, and 8 GB RAM.
ClearDesign Component: DesignStation	Dell Latitude 5590	Laptop with Intel Core i7 processor, 500 GB storage, and 8 GB RAM.
ClearDesign Component: DesignStation	Dell OptiPlex 5250	All-in-One with Intel Core i7 processor, 500 GB storage, and 8 GB RAM.
ClearDesign Component: DesignStation	Dell OptiPlex 7440	All-in-One with Intel Core i7 processor, 500 GB storage, and 8 GB RAM.

Table 15. ClearDesign computers (continued)

Item	Model number	Description
ClearDesign Component: DesignStation	Dell OptiPlex XE3 SFF	All-in-One with Intel Core i5 processor, 1 TB storage, and 8 GB RAM.
ClearDesign Component: DesignStation	Dell Precision T3620	Desktop tower with Intel Core i7 processor, 1 TB storage, and 8 GB RAM.