



Clear Ballot

ClearVote 2.1

ClearVote Approved Parts List

ClearVote Approved Parts List

Clear Ballot Part Number: 100101-10017

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Clear Ballot Group
2 Oliver Street, Suite 200
Boston, MA 02109
857-250-4961
clearballot.com

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Preface

This section defines the purpose of this document. It contains the following subsections.

- About this document
- Scope of this document
- Intended audience
- Contact us

About this document

This document provides information about hardware and software approved for ClearVote systems, and complies with *VVSG 2005, Volume 1, Section 4.3.1*.



A ClearVote® system can comprise the ClearAccess®, ClearAudit®, 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.

Scope of this document

This document includes the following sections:

- [ClearAccess](#)
- [ClearCount](#)
- [ClearDesign](#)
- [COTS management](#)
- [Approved components](#)

Intended audience

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

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 ClearVote product, contact your Clear Ballot representative.

Chapter 1. ClearAccess

The ClearAccess system is an accessible-voting and ballot-marking application that allows voters with a range of disabilities to vote in an unassisted manner. The software runs on a touchscreen computer with an accessible keypad and a sip-and-puff device. The voter can make ballot selections either by tapping the screen, pressing buttons on the keypad, or using the sip-and-puff device.

Ballot selections can be presented on the screen, played over audio headphones, or presented on the screen with audio. When a voter has finished voting, selections are printed to a paper ballot and then cast.

1.1 ClearAccess hardware

The minimum requirements for a ClearAccess computer are:

- 4-core, 4-thread processor
- At least 4 GB of RAM
- USB 2.0 or later ports

See "ClearAccess computers" on page 16 for the list of approved computer models.

1.1.1 Printers

Each ClearAccess computer requires an attached printer to print the paper ballot after a voter has made his or her selections.

See "ClearAccess printers" on page 16 for the list of approved printer models.

1.2 ClearAccess software

Software requirements for the ClearAccess computer include:

- Operating system: Microsoft® Windows® 10 Pro

Chapter 2. ClearCount

The ClearCount system is a central-count, optical-scan system that runs on unmodified commercial off-the-shelf (COTS) computers running the Ubuntu® Linux® and Microsoft Windows operating systems, and supports specific scanner models. The ClearCount system consists of the following components:

- **ScanServer**—A computer running the ClearCount software that hosts the election database and the web server that serves the election reports. The ScanServer computer runs a Linux operating system (a configured version of which is installed with the ClearCount software).
- **ScanStations**—One or more computers (with attached scanners) that scan and adjudicate ballots. The ScanStation computers run the Microsoft Windows operating system.
- **Scanners**—Each scanner is connected to a single ScanStation computer via a USB cable.
- **Election administration stations**—One or more Microsoft Windows computers installed with browser software. Election officials use this computer to manage elections and users, to monitor and create election reports, to merge ClearCast election results, to assign write-in choices, and to adjudicate unreadable cards. System administrators use it to monitor the ClearCount system.
- **Network switch**—Connects the ScanStation computers and the election administration station computers to the ScanServer computer via a closed, wired Ethernet.

2.1 ScanServer hardware

The ScanServer computer hosts the primary database, as well as the server and client software that recognizes and analyzes ballots. The minimum requirements for a ScanServer computer are:

- 4-core, 8-thread processor
- At least 8 GB of RAM
- 500 GB–1 TB minimum of disk space*
- Gigabit LAN connection
- USB 3.0 ports for backing up databases on external hard drives

See "ClearCount computers" on page 19 for the list of approved computer models.

*Note: The internal hard drive size range shown above is a minimum size range. Internal hard drive size should be based on the following formula:

$$0.0022 \times \text{number of cards expected} = \text{number of GB required for hard drive size}$$

If the formula yields less than 500 GB, use 500 GB as the minimum hard drive size.

Similarly, external hard drive size should follow the same formula or the following guidelines:

- Up to 200,000 cards = 2 TB external drive
- Up to 500,000 cards = 4 TB external drive
- Larger elections = 8, 12, or 16 TB external drive as indicated by the above formula

Round up to the nearest available drive size in all situations, but no smaller than a 2 TB external drive in any situation.

2.2 ScanServer software

When a jurisdiction installs or updates the ClearCount ScanServer software, the installer program replaces the ScanServer computer's operating system with Ubuntu Linux. Therefore, the operating system originally installed on the ScanServer computer is irrelevant.

2.3 ScanStation hardware

The ScanStation computer connects to an approved scanner with a USB (2.0 or later) cable for the scanning and processing of ballots. One computer is needed for each scanner in use. The minimum requirements for the ScanStation computers are:

- 4-core, 8-thread processor
- At least 4 GB of RAM (8 GB recommended)
- At least 500 GB of disk space
- Gigabit LAN connection
- USB 2.0 or later ports

See "ClearCount computers" on page 19 for the list of approved computer models.

2.3.1 Scanners

Each scanner in the ClearCount system connects to a ScanStation computer that is connected to the ScanServer computer by a network switch. A ClearCount system can include more than one scanner model.

See "ClearCount scanners" on page 21 for the list of approved scanner models.

2.4 ScanStation software

Software requirements for each ScanStation computer include:

- Operating system: Microsoft Windows 10 Pro
- For Fujitsu® scanners:
 - Fujitsu ScandAll PRO™ 2.0.12
 - Fujitsu TWAIN driver for the connected scanner, one of:
 - fi-6400: PaperStream® IP 1.30.0
 - fi-6800: PaperStream IP 10.10.710
 - fi-7180: PaperStream IP 1.4.0
 - fi-7800: PaperStream IP 1.30.0
 - fi-7900: PaperStream IP 10.10.710

- For ibm ImageTracDS® 1210 scanners:
 - SoftTrac® Capture Suite 4.2.1.532
 - SoftTrac ScanDS 4.7.0
 - TWAIN Manager 6.8.0.104
 - DocNetics 5.6.0.131
- For ibm ImageTrac® Lite 6000 Series scanners:
 - ImageTrac Manager 6.7.1.159
 - SoftTrac Capture Suite 4.2.1.532
 - IT Base 6.7.159
 - DocNetics 5.6.0.131

2.5 Election administration station hardware

The minimum requirements for the election administration station computers are:

- 2-core, 4-thread processor
- At least 4 GB of RAM
- At least 500 GB of disk space
- Gigabit LAN connection

See "ClearCount computers" on page 19 for the list of approved computer models.

2.6 Election administration station software

Software requirements for each election administration station computer include:

- Operating system: Microsoft Windows 10 Pro
- Browser: Google Chrome™

2.7 Network switch

The network switch connects the ScanStation computers and the election administration station computers to the ScanServer computer. A gigabit Ethernet® switch is required. Additional gigabit switches can be added to support a large number of client computers. All Ethernet cables must be Cat-5 or Cat-6. Cables older than Cat-5 have been known to cause slow network speeds.

Consult your Clear Ballot representative if additional networking devices are needed on your ClearCount network to ensure optimum network configuration and tabulation speed.



The network switch allows the ClearCount components to communicate within the system's closed Ethernet network. All ClearCount devices must have wireless, Bluetooth, and Internet capabilities disabled as described in the *ClearCount Election Preparation and Installation Guide*.

See "ClearVote network switches" on page 29 for the list of approved models.

Chapter 3. ClearDesign

The ClearDesign election management system (EMS) is a multi-user ballot design, layout, proofing, and production system. The ClearDesign system consists of the following components:

- **DesignServer**—A computer that runs the ClearDesign software, and hosts its election database and the web server that serves its reports. The DesignServer computer uses the Linux operating system (a configured version of which is installed with the ClearDesign software). The DesignServer computer is an appliance. All user access occurs at a DesignStation computer by a user with the proper credentials.
- **DesignStations**—At least one computer is needed to connect to the DesignServer computer. Depending upon jurisdictional preference, this may be the election administration station computer used by the ClearCount system. The DesignStation computers use the Microsoft Windows 10 Pro operating system.
- **Network switch**—Connects the DesignStation computers to the DesignServer computer via a closed, wired Ethernet.

3.1 DesignServer hardware

The minimum requirements for a DesignServer computer are:

- 4-core, 8-thread processor
- At least 8 GB of RAM
- 500 GB–1 TB minimum of disk space
- Gigabit LAN connection
- USB 3.0 ports

See "ClearDesign computers" on page 28 for the list of approved computer models.

3.2 DesignServer software

When a jurisdiction installs or updates the ClearDesign software, the installer program replaces the DesignServer's computer's operating system with Ubuntu Linux. Therefore, the operating system originally installed on the DesignServer is irrelevant.

3.3 DesignStation hardware

The minimum requirements for the DesignStation computers are:

- 2-core, 4-thread processor
- At least 4 GB of RAM
- At least 500 GB of disk space
- Gigabit LAN connection

See "ClearDesign computers" on page 28 for the list of approved computer models.

3.4 DesignStation software

Software requirements for each DesignStation computer include:

- Operating system: Microsoft Windows 10 Pro
- Browser: Google Chrome

3.5 Network switch

The network switch connects the DesignStation computers to the DesignServer computer. A gigabit Ethernet switch is required. Additional gigabit switches can be added to support a large number of client computers. All Ethernet cables must be Cat-5 or Cat-6. Cables older than Cat-5 have been known to cause slow network speeds.

Consult your Clear Ballot representative if additional networking devices are needed on your ClearDesign network to ensure optimum configuration.



The network switch allows the ClearDesign components to communicate within the system's closed Ethernet network. All ClearDesign devices must have wireless, Bluetooth, and Internet capabilities disabled as described in the *ClearDesign Installation Guide*.

See "ClearVote network switches" on page 29 for the list of approved models.

Chapter 4. COTS management

The ClearVote system is comprised of COTS components. Clear Ballot staff has developed this plan to manage these commodities across the voting system:

Commodity	Expected lifespan	Management
Computers	One year or more	Clear Ballot has developed formal partnerships with suppliers (such as, Dell®) to minimize the need for end-of-life testing and certification activities.
Scanners (Fujitsu and ibml ImageTracDS)	Three years or more	Clear Ballot has entered into agreements with Fujitsu and ibml that ensure scanner and accessory item supply, and engineering assistance.
Scanners (ibml ImageTrac 6000 series)	Five years or more	Clear Ballot has entered into agreements with ibml that ensure scanner and accessory item supply, and engineering assistance, as well as ibml service for these ultra-high-speed scanners.
Printers	One year or more	Clear Ballot maintains relationships with printer manufacturers to receive advance notice of printer end-of-life and new/expected models.
Memory media (USB drives)	One year or more; can be supply-and-demand sensitive	Clear Ballot orders these through distribution to buffer supply shortages and price shocks. Clear Ballot maintains relationships with manufacturers to obtain their roadmaps and have advance notice of end-of-life.

Appendix A. Approved components

This appendix provides details of approved computers, scanners, printers, and other accessories. Clear Ballot has tested this certified ClearVote release with 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 *ClearVote Approved Parts List*.

A.1 ClearAccess computers

The following models (with minimum capabilities) are approved for ClearAccess computers:

- Dell Inspiron™ 7573
 - Intel® Core™ i5 processor
 - 8 GB RAM
 - 500 GB storage
- Dell OptiPlex™ 5250
 - Intel Core i5 processor
 - 8 GB RAM
 - 500 GB storage
- Elo® E-Series ESY15E2 (E757464)
 - Intel Celeron® processor
 - 4 GB RAM
 - 128 GB storage
- Elo X-Series ESY20X2 (E521522)
 - Intel Celeron processor
 - 4 GB RAM
 - 128 GB storage

A.2 ClearAccess printers

The following models are approved as ClearAccess printers.

Item	Part number	Description
OKI Data® Duplex Laser Printer	B432dn	For printing ballots up to 14" in length
OKI Data Duplex Laser Printer	B432dn-B	For printing ballots up to 20" in length

A.3 ClearAccess personal assistive devices

The following devices are approved for use with the ClearAccess system.

Item	Part number	Description
Clear Ballot Braille Overlay	CV-1123-2.0	For Storm Interface accessible keypad
HamiltonBuhl™ SchoolMate™ Headphones	HA-7	For text-to-speech audio
Monoprice® Headphones	108323	For text-to-speech audio
Origin Instruments™ Breeze™ BZ2 Sip-and-Puff Device with Headset	AC-0300-MU	Alternate entry device
Pilot® Stylus	T1102-BLK-TW-HS	Tethered stylus for touchscreens
Samson® Headphones	SASR350	For text-to-speech audio
Storm Interface® EZ Access® Keypad	EZ08-22201	Accessible keypad
Storm Interface EZ Access Keypad	EZ08-22200	Accessible keypad
Studio Neat™ Cosmonaut™ Stylus	COS001AL	Wide-grip stylus for touchscreens

A.4 ClearAccess consumables

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

Item	Part number	Description
OKI Data High-Yield Toner Cartridge	45807105-ER	For OKI Data printers
Origin Instruments Replacement Mouth Tubes	AC-0301-10	For sip-and-puff device (10 tubes, 1 inline filter)
Origin Instruments Replacement Mouth Tubes	AC-0301-100	For sip-and-puff device (100 tubes)
Printelect™ Headset Ear Covers	1395-01	Disposable sanitary covers for headphones (100 count)

A.5 ClearAccess accessories

The following items are approved for use with the ClearAccess system.

Item	Part number	Description
APC™ Smart-UPS™	SMT2200C	Uninterruptible power supply for voting station
Clear Ballot 1" 2 mil Polymide Film Tape	CV-1210-2.0	Applied to OKI Data printers
Clear Ballot 2" 2 mil Polymide Film Tape	CV-1211-2.0	Applied to Elo touchscreens
Clear Ballot 4" 2 mil Polymide Film Tape	CV-1212-2.0	Applied to Elo touchscreens and CyberPower UPS
Clear Ballot Acrylic Cover	CV-1180-1.4-1	Applied to APC UPS
Clear Ballot Privacy Panel	CB-1097-1.5	Privacy screen for voting station
Clear Ballot Touchscreen Bezel	CV-1048-1.4-1	For Inspiron 7573 computer
Clear Ballot Touchscreen Bezel	CV-1048-1.4-2	For OptiPlex 5250 computer
Clear Ballot Transport Case	CV-1022-1.4	For OptiPlex 5250 computer, OKI Data printer, headphones, keypad, and cables (15" by 22" by 38", 25 lb)
Clear Ballot Transport Case	CV-1022-2.0	For Elo computer, OKI Data printer, headphones, keypad, and cables (19" by 22" by 27", 15 lb)
Clear Ballot UPS Transport Case	CV-1157-2.0	For CyberPower UPS
CyberPower® Smart App Sinewave UPS	PR1500RT2U	Uninterruptible power supply for voting station
Ergotron® Neo-Flex® Widescreen Lift Stand	33-329-085	For OptiPlex 5250 computer
Kapton® 3/4" 2 mil Polymide Film Tape	S-17213	Applied to APC UPS
Micrologic™ Printer Tray Extender Kit	B432TrayKit	Tray extension for OKI Data B432dn-B printer
Tapes Master™ Copper Foil Tape	TM-36-COPP-1M-3	Applied to OKI Data printers
Wearson® Adjustable Stand	WS-03A	For Inspiron 7573 computer

Item	Part number	Description
Würth Elektronik™ Ferrite	742-416-33S	Applied to OKI Data printer cable
Würth Elektronik Ferrite	742-711-32	Applied to keypad data cable
Würth Elektronik Ferrite	742-712-22	Applied to OKI Data printer cable
Würth Elektronik Ferrite	742-717-22	Applied to Elo power cord, OKI Data printer cable, keypad data cable, bar code reader data cable
Zebra® Bar Code Scanner	DS457-SR	For reading QR codes
Zebra Scanner Cable	CBL-58926-05	USB cable for bar code scanner

A.6 ClearCount computers

The following models (with minimum capabilities) are approved for ClearCount computers:

ScanServer computers

- Dell PowerEdge™ R440
 - Intel Silver processor
 - 16 GB RAM
 - 16 TB storage
- Dell PowerEdge T130
 - Intel Xeon® E3 processor
 - 8 GB RAM
 - 4 TB storage
- Dell PowerEdge T140
 - Intel Xeon E-2144G processor
 - 8 GB RAM
 - 4 TB storage
- Dell PowerEdge T330
 - Intel Xeon E3 processor
 - 16 GB RAM
 - 16 TB storage

- Dell PowerEdge T440
 - Intel Xeon Silver processor
 - 16 GB RAM
 - 16 TB storage

ScanStation computers

- Dell Latitude™ 5500
 - Intel Core i7 processor
 - 8 GB RAM
 - 500 GB storage
- Dell Latitude 5580
 - Intel Core i7 processor
 - 8 GB RAM
 - 500 GB storage
- Dell Latitude 5590
 - Intel Core i7 processor
 - 8 GB RAM
 - 500 GB storage

Election administration station computers

- Dell Latitude 5500
 - Intel Core i7 processor
 - 8 GB RAM
 - 500 GB storage
- Dell Latitude 5580
 - Intel Core i7 processor
 - 8 GB RAM
 - 500 GB storage
- Dell Latitude 5590
 - Intel Core i7 processor
 - 8 GB RAM
 - 500 GB storage

- Dell Optiplex 7440
 - Intel Core i7 processor
 - 8 GB RAM
 - 1 TB storage
- Dell Optiplex XE3 SFF
 - Intel Core i5 processor
 - 8 GB RAM
 - 1 TB storage
- Dell Precision™ T3620
 - Intel Core i7 processor
 - 8 GB RAM
 - 1 TB storage

A.7 ClearCount scanners

Clear Ballot supports the following scanner models.

Item	Part number	Description
Fujitsu fi-6400	PA03575-B405	For ballots up to 22" in length, recommended for 100,000 voters or more
Fujitsu fi-6800	PA03575-B065	For ballots up to 22" in length, recommended for 100,000 voters or more
Fujitsu fi-7180	PA03670-B005	For ballots up to 14" in length, recommended for 25,000 voters or fewer
Fujitsu fi-7800	PA03800-B405	For ballots up to 22" in length, recommended for 100,000 voters or more
Fujitsu fi-7900	PA03800-B005	For ballots up to 22" in length, recommended for 100,000 voters or more
ibml ImageTracDS	1210	For ballots up to 22" in length, recommended for 200,000 voters or more
ibml ImageTrac-Lite	6000 Series	For ballots up to 22" in length, recommended for 1,000,000 voters or more



Contact your Clear Ballot representative for assistance in configuring your ClearCount system to use ibml scanners.

A.7.1 Fujitsu scanner firmware

The following firmware versions are approved for the ClearCount system.

Model	Firmware version
fi-6400	(SDC) 0A00 (MDC) 0B00
fi-6800	(SDC) 0N00 (MDC) 0G00 (SDC) 0J00 (MDC) 0F00
fi-7180	0G00
fi-7800	(SDC) 0C00 (MDC) 0C00
fi-7900	(SDC) 0S00 (MDC) 0K00



Fujitsu updates the firmware versions in their scanners. If you are unsure about a particular firmware version, contact your Clear Ballot representative.

A.7.2 ibml scanner firmware

The following firmware versions are approved for the ClearCountsystem.

Model	Firmware version
ImageTracDS 1210	3.04.00
ImageTrac Lite 6000 Series	6.00 (build 56)



ibml updates the firmware versions in their scanners. If you are unsure about a particular firmware version, contact your Clear Ballot representative.

A.8 ClearCount peripherals

The following items are approved for use with the ClearCount system.

Item	Part number	Description
Brother® Compact Duplex Laser Printer	HL-L2340DW	For printing reports up to 14" in length
Brother Compact Duplex Laser Printer	HL-L2350DW	For printing reports up to 14" in length
Netac® K390 Keypad 4 TB Encryption Portable Hard Disk	86024554	Used with the ScanServer computer to back up and restore encrypted election data
Western Digital® My Book® 4 TB External Hard Drive	WDBBGB0040HBK-NESN, WDBFJK0040HBK-NESN	Used with the ScanServer computer to back up and restore election data
Western Digital My Book 8 TB External Hard Drive	WDBBGB0080HBK-NESN, WDBFJK0080HBK-NESN	Used with the ScanServer computer to back up and restore election data

A.9 ClearCount accessories

The following items are approved for use with the ClearCount system.

Item	Part number	Description
Uncaged Ergonomics™ WorkEZ™ Executive Stand (Black)	WEEb (661799222983)	For ScanStation computers
Uncaged Ergonomics™ WorkEZ™ Executive Stand (Silver)	WEEs (661799222990)	For ScanStation computers

A.10 Fujitsu scanner consumables

Item	Part number	Description
fi-6400 consumables		
ScanAid™ Kit	CG01000-530801	One pick roller, one separation roller, one brake roller, one 100-mL bottle of F1 cleaning fluid, three 20-packs of cleaning wipes, 20-pack of cleaning sheets, 100-pack of cleaning swabs
Pick Roller Set	PA03575-K011	Recommended replacement: 600,000 sheets or one year
Brake Roller	PA03575-K013	Recommended replacement: 600,000 sheets or one year
Separation Roller	PA03575-K012	Recommended replacement: 600,000 sheets or one year
Cleaning Kit	CG01000-372901	One 100-mL bottle of F1 cleaning fluid, one 100-mL bottle of F2 cleaning fluid, 20-pack of cleaning cloths, 20-pack of sticky cleaning paper, 100-pack of cleaning swabs
fi-6800 consumables		
ScanAid Kit	CG01000-530801	One pick roller, one separation roller, one brake roller, one 100-mL bottle of F1 cleaning fluid, three 20-packs of cleaning wipes, 20-pack of cleaning sheets, 100-pack of cleaning swabs
Pick Roller Set	PA03575-K011	Recommended replacement: 600,000 sheets or one year
Brake Roller	PA03575-K013	Recommended replacement: 600,000 sheets or one year
Separation Roller	PA03575-K012	Recommended replacement: 600,000 sheets or one year
Cleaning Kit	CG01000-372901	One 100-mL bottle of F1 cleaning fluid, one 100-mL bottle of F2 cleaning fluid, 20-pack of cleaning cloths, 20-pack of sticky cleaning paper, 100-pack of cleaning swabs
fi-7180 consumables		
ScanAid Kit	CG01000-280401	One brake roller, one pick roller, one 100-mL bottle of F1 cleaning fluid, 20-pack of cleaning cloths, 10-pack of cleaning paper, 100-pack of cleaning swabs
Pick Roller Set	PA03670-0002	Recommended replacement: 200,000 sheets or one year
Brake Roller	PA03670-0001	Recommended replacement: 200,000 sheets or one year

Item	Part number	Description
Cleaning Kit	CG01000-372901	One 100-mL bottle of F1 cleaning fluid, one 100-mL bottle of F2 cleaning fluid, 20-pack of cleaning cloths, 20-pack of sticky cleaning paper, 100-pack of cleaning swabs
fi-7800 consumables		
ScanAid Kit	CG01000-295401	One pick roller, one separation roller, one brake roller, one 100-mL bottle of F1 cleaning fluid, three 20-packs of cleaning wipes, 20-pack of cleaning sheets, 100-pack of cleaning swabs
Pick Roller Set	PA03575-K011	Recommended replacement: 600,000 sheets or one year
Brake Roller	PA03575-K013	Recommended replacement: 600,000 sheets or one year
Separation Roller	PA03800-K012	Recommended replacement: 600,000 sheets or one year
Cleaning Kit	CG01000-372901	One 100-mL bottle of F1 cleaning fluid, one 100-mL bottle of F2 cleaning fluid, 20-pack of cleaning cloths, 20-pack of sticky cleaning paper, 100-pack of cleaning swabs
fi-7900 consumables		
ScanAid Kit	CG01000-295401	One pick roller, one separation roller, one brake roller, one 100-mL bottle of F1 cleaning fluid, three 20-packs of cleaning wipes, 20-pack of cleaning sheets, 100-pack of cleaning swabs
Pick Roller Set	PA03575-K011	Recommended replacement: 600,000 sheets or one year
Brake Roller	PA03575-K013	Recommended replacement: 600,000 sheets or one year
Separation Roller	PA03800-K012	Recommended replacement: 600,000 sheets or one year
Cleaning Kit	CG01000-372901	One 100-mL bottle of F1 cleaning fluid, one 100-mL bottle of F2 cleaning fluid, 20-pack of cleaning cloths, 20-pack of sticky cleaning paper, 100-pack of cleaning swabs

A.11 ibml scanner consumables

Item	Part number	Description
ImageTracDS 1210		
Pick Roller	HT-3277635-1 Order in multiples of two.	Recommended replacement: Approximately 1 year or 1 million sheets
Separator Roller	HT-3231933-2 Order in multiples of two.	Recommended replacement: Approximately 1 year or 1 million sheets
Reverse Roller	HT-3248734-3 Order in multiples of two.	Recommended replacement: Approximately 1 year or 1 million sheets
Roller Kit	HT-3291720-A	Includes two each of the following: • HT-3248734-3 (reverse roller) • HT-3231933-2 (separator roller) • HT-3277635-1 (pick roller) Recommended replacement: Approximately 1 year or 1 million sheets
ImageTrac Lite 6000 series		
Feed Tire, Black	016-00009 Order in multiples of two.	Use with gray reverse belts. Recommended for use with paper weights of 20 lb (75 g/m ²) or greater. Recommended replacement: Approximately 800,000 to 1 million sheets
Feed Tire, Gray	016-00037 Order in multiples of two.	Use with yellow reverse belts. Recommended for use with TAT airline tickets, (thin documents with the red carbon backs), and other fragile types of documents. Recommended replacement: Approximately 800,000 to 1 million sheets
Feed Tire, Dark Tan	016-00077 Order in multiples of two.	Has the same properties as 016-00070. Generally used with the gray reverse belts; only more fragile documents will require the yellow reverse belts. Recommended replacement: Approximately 800,000 to 1 million sheets

Item	Part number	Description
Feed Tire, Gray Beveled	016-00085 Order in multiples of two.	Use with the yellow reverse belts. Use with documents that have properties similar to rice paper. Made of the same material as the gray feed tire, 016-00037, with the edges beveled to lessen the friction placed on the document as it is pulled through the feeder. Recommended replacement: Approximately 800,000 to 1 million sheets
Feed Tire, Dark Tan Beveled	016-00090 Order in multiples of two.	Use with the yellow reverse belts. Use with fragile documents that are not as fragile as rice paper. Made of the same material as the dark tan feed tire, 016-00077, with the edges beveled to lessen the friction placed on the document as it is pulled through the feeder. Recommended replacement: Approximately 800,000 to 1 million sheets
Feed Tire, Gray, Soft Touch	016-00123 Order in multiples of two.	Use with yellow reverse belts (016-00022) or gray reverse belts (016-00093). Use for thin or fragile documents (including, but not limited to, rice paper, historical records, slick/glossy documents). Recommended replacement: Approximately 800,000 to 1 million sheets
Reverse Belt, Gray Foam	016-00093 Order in multiples of two.	Works well with the majority of document types. Recommended replacement: Approximately 500,000 to 1 million sheets
Reverse Belt, Yellow Foam	016-00022 Order in multiples of two.	Works well with fragile document types. Recommended replacement: Approximately 800,000 to 1 million sheets
Cleaning Brush	127-00067	Use to clean the reverse belts (only) during the operator daily maintenance.
Optical Lens Wipe	042-00149	Use to clean ImageTrac camera optics. Use wipe dry; do not use any type of liquid on camera lens. Bag of 150.

A.12 ClearDesign computers

The following models (with minimum capabilities) are approved for ClearDesign computers:

DesignServer computers

- Dell PowerEdge R440
 - Intel Xeon Silver processor
 - 16 GB RAM
 - 8 TB storage
- Dell PowerEdge T130
 - Intel Xeon E3 processor
 - 8 GB RAM
 - 2 TB storage
- Dell PowerEdge T140
 - Intel Xeon E-2144G processor
 - 8 GB RAM
 - 2 TB storage
- Dell PowerEdge T440
 - Intel Xeon Silver processor
 - 16 GB RAM
 - 8 TB storage
- Dell PowerEdge T630
 - Intel Xeon E5 processor
 - 8 GB RAM
 - 1 TB storage

DesignStation computers

- Dell Latitude 5500
 - Intel Core i7 processor
 - 8 GB RAM
 - 500 GB storage

- Dell Latitude 5580
 - Intel Core i7 processor
 - 8 GB RAM
 - 500 GB storage
- Dell Latitude 5590
 - Intel Core i7 processor
 - 8 GB RAM
 - 500 GB storage
- Dell Optiplex 7440
 - Intel Core i7 processor
 - 8 GB RAM
 - 1 TB storage
- Dell Optiplex XE3 SFF
 - Intel Core i5 processor
 - 8 GB RAM
 - 1 TB storage
- Dell Precision T3620
 - Intel Core i7 processor
 - 8 GB RAM
 - 1 TB storage

A.13 ClearVote network switches

The following network switches are approved for use with ClearVote products as designated.

Item	Part number	Description	Product
Cisco® Catalyst® Switch	WS-C-2960X-24PS-L	24-port gigabit network switch for up to 22 additional stations	ClearCount
Cisco Smart Switch™	SG250-08-K9-NA	8-port gigabit network switch for up to six additional stations	ClearCount, ClearDesign
Cisco Smart Switch	SG250-26-K9-NA	26-port gigabit network switch for up to 24 additional stations	ClearCount

Item	Part number	Description	Product
NETGEAR® ProSafe® Ethernet Switch	JFS524-200NAS	24-port gigabit network switch for up to 22 additional stations	ClearCount
NETGEAR ProSafe VPN Firewall	FVS318G	8-port gigabit network switch for up to six additional stations	ClearCount, ClearDesign
TP-LINK® Easy Smart™ Switch	TL-SG108E	8-port gigabit network switch for up to six additional stations	ClearCount, ClearDesign
TP-LINK SafeStream™ VPN Router	TL-R600VPN	4-port gigabit router for up to two additional stations	ClearCount, ClearDesign
TRENDnet® GREENnet™ Switch	TEG-S80G	8-port gigabit network switch for up to six additional stations	ClearCount, ClearDesign

A.14 ClearVote peripherals

The following items are approved for use with ClearVote products as designated.

Item	Part number	Description	Product
Anker™ USB 3.0 SuperSpeed 10-Port Hub	AK-68ANHUB-B10A	For copying or merging multiple USB drives	ClearCount, ClearDesign
Corsair® Flash Padlock® 3 32 GB Secure USB 3.0 Flash Drive	CMFPLA3B-32GB	Encrypted USB drive for transferring files	All products
Dell 22" Monitor	P2217H	For desktop computers	ClearCount, ClearDesign
Dell 22" Monitor	P2219H	For desktop computers	ClearCount, ClearDesign
Dell 27" Monitor	P2717H	For desktop computers	ClearCount, ClearDesign
Dell 27" Monitor	P2719H	For desktop computers	ClearCount, ClearDesign
Lenovo® UltraSlim USB DVD Burner	LN-8A6NH11B	For installing software	All products
LG® Ultra-Slim Portable DVD Burner	GP65NB60	For installing software	All products

Item	Part number	Description	Product
Sabrent™ 13-Port USB Hub	HB-U14P	For copying or merging multiple USB drives	ClearCount, ClearDesign
SanDisk® Extreme Go 64 GB USB 3.1 Drive	SDCZ800-064G-G46	For transferring files	All products
SanDisk Ultra Flair™ 32 GB USB 3.0 Drive	SDCZ73-032G-A46, SDCZ73-032G-G46	For transferring files	All products
StarTech™ 4-Port KVM Switch with Hub	SV431USB	Allows control of up to four computers from a single keyboard, mouse and monitor	ClearCount, ClearDesign
Systor™ USB Duplicator	SYS-USBD-11	For duplicating USB drives	ClearDesign

A.15 ClearVote accessories

The following items are approved for use with ClearVote products as designated.

Item	Part number	Description	Product
APC Smart-UPS	SMT1500C	Uninterruptible power supply for servers	ClearCount, ClearDesign
Belkin® SurgeMaster® Power Strip	F9D1000-15	10-socket metal surge protector power strip	All products
Inclusion Solutions™ Plastic Voting Screen	PSP	Privacy screen for voting station	ClearAccess
Lifetime® 4-Foot Folding Table	4428	Polling place voting table	ClearAccess
Maximm™ Extension Cord	STK09041190	6-foot 3-outlet rotating flat plug power cord	All products
MMF Industries® Secure-A-Pen®	514455	Counter pen with chain and three refills	All products
Printelect Classic Voting Booth	1907-01	Polling place voting booth	ClearAccess
Printelect Classic ADA Voting Booth	1915-01	Polling place ADA voting booth	ClearAccess
Printelect I Voted Today Sticker	1055-01	1000 stickers	All products

Item	Part number	Description	Product
Printelect I Voted Today Sticker (Spanish)	1717-01	1000 stickers	All products
Smart Keeper® Link Lock	CSK-LK11/20	Lock for USB ports	All products
Smart Keeper Lock Key	CSK-U10/11/20	Key for Link Locks and USB Port Locks	All products
Smart Keeper USB Port Lock	40462	Blocker for USB ports	All products
StarTech USB 2.0 A-to-B Cable	USB2HAB6	For connecting printers	ClearAccess, ClearCount
Tripp Lite™ Cat6 Patch Cable	N201-020-BK	Network Ethernet cable	ClearCount, ClearDesign
TydenBrooks™ Tamper-Evident Seals	MRS2	Tamper-evident seals (50 count)	All products

A.16 Marking devices

The following marking devices are approved for use with ClearVote products.

Item	Part number	Description
Bic® Gel-ocity® Gel Pen	31563	Black 0.7 mm medium-point retractable rollerball pen
Sakura® Pigma® Micron® 08 Ink Pen	30881	Black 0.55 mm fine-point pen with cap
Sharpie® Permanent Marker	H-286-BL	Black fine-point felt tip marker
Ticonderoga® Wooden Pencil	13924	#2 graphite