

## Bar Code Scanner and Label Printer to work with SVRS

The laser barcode scanner and the label printer are both optional. They are not needed to operate within the SVRS system, but they could save time and staff costs as well as simplify the process. If you elect to not purchase this hardware you can still fully use the SVRS system. Various models and brands of both the barcode scanner and label printer will work with SVRS, so you may wish to delay purchasing until after you have tested current equipment with SVRS. If you do elect to purchase the hardware the following are recommended:

- Label Printer: Dymo Labelwriter: 330, 330 Turbo, 400, or 400 Turbo

The label printer is a smaller printer which prints from a single roll of labels. These labels can be used for address labels and for barcode labels. For instance, when a voter requests an absentee ballot and it is approved by the clerk, the absentee ballot needs to be mailed to the voter. The label printer would print a mailing label for the envelope that is sent to the voter. The label printer would also print a label for the inner envelope which the voter uses to return the absentee ballot. The label printer could also be used to print a barcode label, for the back of the inner envelope, which the clerk could then scan to record that the absentee ballot was returned by the voter. The label printer would prove very helpful when labels are printed a few at a time. Labels can always be printed from sheets of labels on the recommended laserjet printers, but the label printer will allow for minimal waste when less than a full sheet are being printed.

The 330 and 330 Turbo models are no longer produced by Dymo, but can still be found at many retailers for approximately \$125. The 400 and 400 Turbo models are the most current models as of December 2005. The difference between the 400 and the 400 Turbo is the speed at which the labels print (40 per minute vs. 55 per minute). The suggested retail price is \$110 for the 400 model and \$140 for the 400 Turbo model (price may vary across retail locations).

- Laser Barcode Scanner: Wasp WLS 9000 or 9005

SVRS will put barcodes on a number of reports and documents automatically from the clerk's regular printer. For instance, the poll book will print with a barcode for each registered voter. Then, after the election, the clerk (or staff) can scan the voter's individual barcode to update the fact that this voter did cast a vote. For the poll book alone, the clerk should consider a barcode scanner to save staff data entry time. Barcode readers are often described as having a "wedge interface". This means that the barcode scanner plugs into the PS/2 connection on your computer, and that the keyboard connects to the barcode scanner instead of directly into the computer, thus creating a "wedge" between the keyboard and computer. If your keyboard does not connect through a PS/2 connection, you can purchase a barcode scanner model with a USB connection, which will not connect to the keyboard. The barcode scanner needs to read "3 of 9" barcodes, which is the type of barcodes produced by SVRS.

Many models will work; the recommended mid-priced models are the Wasp WLS 9000 or Wasp WLS 9005. The difference between the 9000 and 9005 is the manner in which it connects to your computer (9000- standard PS/2 cable, 9005 – USB cable). The suggested retail price is \$325 for the 9000 and \$395 for the 9005. If you are interested in saving money you can shop around for other models. If you already have a barcode scanner, it is recommended that you test its functionality with SVRS before purchasing new equipment.

While SEB cannot recommend a specific vendor for purchase of hardware, here are several website resources:

- Wasp barcode scanner:
  - [http://www.waspbarcode.com/scanners/laser\\_barcode\\_Scanner.asp](http://www.waspbarcode.com/scanners/laser_barcode_Scanner.asp)
- Dymo Labelwriter:
  - [http://global.dymo.com/enUS/Categories/LabelWriter\\_Printers.html](http://global.dymo.com/enUS/Categories/LabelWriter_Printers.html)
- Price comparison sites:
  - <http://www.mysimon.com>
  - <http://shopping.yahoo.com>
  - <http://www.shopping.com>
  - [http://www.google.com/Top/Home/Consumer\\_Information/Price\\_Comparisons/](http://www.google.com/Top/Home/Consumer_Information/Price_Comparisons/)
  - [http://dir.yahoo.com/Computers\\_and\\_Internet/Product\\_Information\\_and\\_Reviews/Buyers\\_Guides/Price\\_Guides/](http://dir.yahoo.com/Computers_and_Internet/Product_Information_and_Reviews/Buyers_Guides/Price_Guides/)

Overall technical specifications:

Required?	Type	Recommended Specifications
Required	Desktop and monitor	Intel Pentium 4 or AMD Athlon, 2GHz processor and 256MB of RAM
		2GB hard drive, 100MB free space
		CD-R or CD-RW Drive
		101 key keyboard (PS/2 or USB connection)
		2-button PS/2 or USB Mouse or Trackball with scroll wheel
		SVGA graphics card and monitor capable of displaying 65,535 color and 1024x768 screen resolution
	Printer	Required: laser or inkjet printer (dot-matrix and character impact printers are not supported), network connected, with software drivers for Windows 2003 or Windows 2000 Recommended: For municipalities with less than 2,500 voters, HP LaserJet 1320TN or any printer that supports PCL5 For municipalities with more than 2,500 voters, HP LaserJet 4250DTN, HP LaserJet 4250DTNSL, or any printer that supports PCL5
	Software	Windows XP Professional with SP2 and all of the latest Critical Updates
		Internet Explorer 6.0 or later
		McAfee Anti-Virus 8.0 or similar virus protection software updated automatically over the Internet through scheduled task
		Automatic Updates enabled to automatically download and install new patches
	Connectivity	100 Mbps Ethernet interface with RJ-45 connector or adapter
		High speed (broadband) connection (cable or DSL)
		If network firewall exists, ports 80, and 443 must be open.
Optional	Other Peripherals	Dymo LabelWriter label printer
		Laser barcode scanner with wedge or USB interface