Digital Library Hardware and Software

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Materials for Digitization

- Still Images
  - Printed text
  - Handwritten text
  - Photographic materials
  - Newspapers
  - Maps
- Audio
- Video
Developing Digital Collection

- Digitizing own collection
- Acquiring or licensing from 3rd parties
Digitizing own collection

- The basic requirement for digitizing the Library’s own collection is a scanner and the associated software like OCR.
- Libraries are to establish a content creation section that has to cater to digitizing both text and multimedia information. Multimedia section can contain both visual and sound information.
- Digitized information must be clearly identified, properly indexed and well organized for it’s archival and dissemination.
Acquiring or licensing from 3rd parties

- Digital resources could be in the form of databases and even full text. They could be purchased from the vendors or publishers. These resources may be offered to libraries in one of the following models:

- a. Individual / Library Subscription
- b. Subscription through Consortia
Hardware for Digital Library

- Desktop computer with supporting accessories.
- Input capture devices: Scanner and Video camera
- Printer
- Telephone connection
- Modem
- Cables for networking
- Switch, router, bridge and other connecting devices
- CD/DVDs or other external storage devices
- UPS (Uninterrupted Power Supply)
Computer: Hardware

- Intel Pentium 2.4GHz processor
- 512MB RAM /356MB
- 36-36GB, 2 hard drives
- DVD+/-RW drive
- 15” or larger CRT monitor, good quality
- Multimedia Kits
Computer: Hardware

The hard drive and RAM are inside the system unit. You can’t see them.
Duplex Scanner

- **Manufacturer:** Fujitsu Limited, Tokyo, Japan
- **Features:** 600 dpi optical resolution, 100-page automatic document feeder, dual color CCDs (charge-coupled device) scan both sides of a page in one pass, scanning speed up to 80 ipm for monochrome at 200 dpi.

- **How we use it:** high-speed scanning of books and documents that can be disbound
Flatbed Scanners

- **Manufacturer:** Epson America, Inc., Long Beach, CA, affiliate of Seiko Epson Corporation

- **Features:** scanning area 12.2" x 17.2"; 2400 x 4800 dpi resolution; includes 12.2" x 16.5" transparency adapter; scanning speed at 2400 dpi,

- **How we use it:** scanning photographic prints, photographic negatives in sizes from 35mm roll film to large format sheet film, glass plate negatives, and large documents
Epson 4990 Photo/Pro Scanner

- **Features:** scanning area 8.5" x 11.7"; optical resolution 4800 dpi; transparency adapter built-in lid with film holders for 35mm slides/film, medium format strips, and 4" x 5" film; 8" x 10" film area guide; scanning speed 12.3 msec/line (Mili second per line)

- **How we use it:** scanning photographic prints, photographic negatives in sizes from 35mm roll film to large format sheet film, glass plate negatives, and documents

www.epson.com
Barcode Scanner : Hand Held

- These light weight barcode scanners are operated manually by firing a connected with computer generally trigger. It can be used in any area, where required scanning distance retail, libraries, service sector, courier industry, hospitals. These are most economical scanning option.
Barcode Printers : Entry Level

- 2” or 4” wide print width
- 203 dots per inch (dpi) print resolution
- Print speed up to 3 inches per second (ips)
- Most economical (Product Code: BL OS214TT)
Camera: Canon

- Full-featured, compact 8.0 Mega pixel digital camera with a 12x Optical Zoom
- Canon Optical Image Stabilizer Technology and ISO 1600 for steady shooting
- Hot shoe adapter for the Speedlite EX Series external flashes
Camera: Canon

- Print/Share Button for easy direct printing and downloading, plus ID Photo Print and Movie Print with select PIXMA Photo Printers, CP and SELPHY Compact Photo Printers
- Shoot easy movies with movies capable of 30 fps VGA or 60 fps QVGA. Also a convenient to use Movie Button, never having to switch to a shooting mode
- www.usa.canon.com