


# Output Devices

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# List of Output Devices

- ▶ Visual Display Unit
  - ▶ Printers
  - ▶ Plotters
  - ▶ Speakers
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# Output Devices

- Devices that display, print, or transmit the results of processing from the computer's memory.
  - Before an output can be produced by a computer it must have an output device connected to it.
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# Visual Display Unit (VDU)

- A visual Display Unit (VDU) or Monitors are the most popular output devices used for producing soft-copy output.
- Monitors can display graphics, text and video. The size of a monitor is measured in inches diagonally across the screen; 15, 17, 19 and 21 inch monitors are the most common sizes. A color monitor can display from 16 to over 1 million different colors.




**Visual Display Unit (VDU)**


# Printers

- A printer is an output device that produces a printout or hard copy of the output from a computer. There are many types of printer available.
  - The speed of printers can be measured in characters per second (CPS) or pages per minute (PPM), the higher the values are, the faster the printer can produce output.
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# TYPES OF PRINTERS

- ▶ **Impact Printers:** An impact printer forms characters and graphics on a piece of paper by striking a mechanism against an ink ribbon that physically contacts the paper.
  - ▶ **Non-Impact Printers:** A non-impact printer forms characters and graphics on a piece of paper without actually striking the paper.
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# TYPES OF PRINTERS

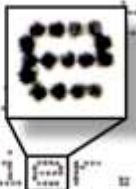
- ▶ Daisy Wheel Printer
  - ▶ Dot–Matrix Printer
  - ▶ Line Printer
  - ▶ Ink–Jet Printer
  - ▶ Laser Printer
  - ▶ Plotter
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# Dot Matrix Printer

- A dot matrix printer forms characters and graphics on the paper by producing pattern of dots.
- Dot matrix printers are relatively cheap and so is the stationery that they use.
- Dot-matrix printers are generally noisy.
- Slow, with speeds usually ranging between 30 to 600 characters per second.



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mercial supplier.



**Dot Matrix Printer & Printout**



# Inkjet Printer

- This is a non-impact printer that forms characters and graphics by spraying tiny drops of liquid ink onto a piece of paper.
- Inkjet Printers are very quiet to operate and can produce good quality printouts of both graphics and text.
- Inkjet printers are generally quiet.
- Inkjet printers can produce high quality color output.



**Inkjet  
Printer**

# *DAISY WHEEL PRINTER*

- A daisywheel printer is an impact printer that uses a wheel as a print head. As the wheel rotates, a hammer strikes the backside of the spoke and presses it against the paper to print a character.
- Can print letter quality characters.
- Printing speed is very slow.



**Daisy  
Wheel  
Printer**

# Laser Printer

- The mechanism of how a laser printer works is similar to a photocopier. Laser printers are also known as *page printers* because they process and store the entire page before they actually print it.
- Laser printers can print text at speeds of four to over thirty pages per minute.
- The cost per page of toner cartridges is lower than other printers.
- Laser printers are quiet and fast.

Laser  
Printer



# Plotter

- A plotter is a large printer that generates high-quality documents by moving ink pens over the surface of a page.
- Plotters are particularly useful to engineers and architects, as they produce high-quality blueprints, maps, and floor plans.
- Can print on large printers.
- High quality printing.
- Plotters are expensive.

Plotter



# Speakers

- A speaker, or speaker system converts an electrical signal to sound.
- The term loudspeaker can refer to individual transducers (known as drivers), or to complete systems consisting of an enclosure incorporating one or more drivers and electrical filter components.
- Loudspeakers are the most variable elements in an audio system and are responsible for the greatest degree of audible differences between sound systems.

Speakers



**Thank You**

