

Input and Output Technologies

Definition

An input/output (I/O) devices: are hardware devices that has the ability to accept inputted, outputted or other processed data.

Main Input devices

1. Keyboard

Used to input text, characters, and other commands into a computer or similar device.



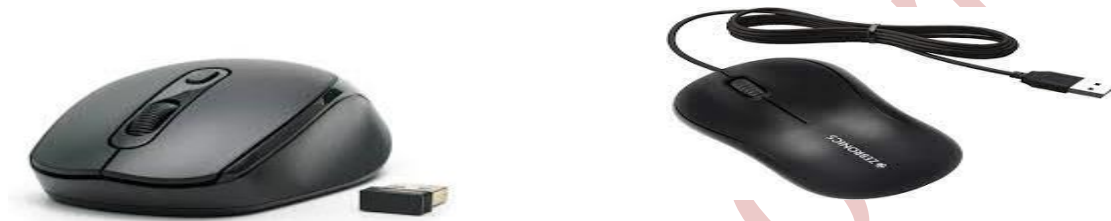
*Wireless Keyboard

The computer receives input signals from the keyboard and send them to the CPU for quick processing then displayed on the computer monitor.



2. Mouse

Send instructions to the computer by moving the cursor on the screen.



* Wireless Mouse

3. Trackball

It considered a big mechanical mouse.

* The one different between mouse and trackball is the user rotates the ball with finger to move the cursor on the screen.



4. Touch Pad

A touch-sensitive panel used in laptops and some keyboards.



5. Scanner

A device that capture images from photographic pages for computer editing and display.



6. Joystick

Consist of a stick that can moved in any direction to control the cursor. It used for gaming applications and sometimes in graphics applications.



7. Computer Microphone

Used to record sounds on the computer.



8. Digital camera



9. Web camera

Used to communicate via Internet.



10. Light pen

Used to select or otherwise modify text or data on a screen.

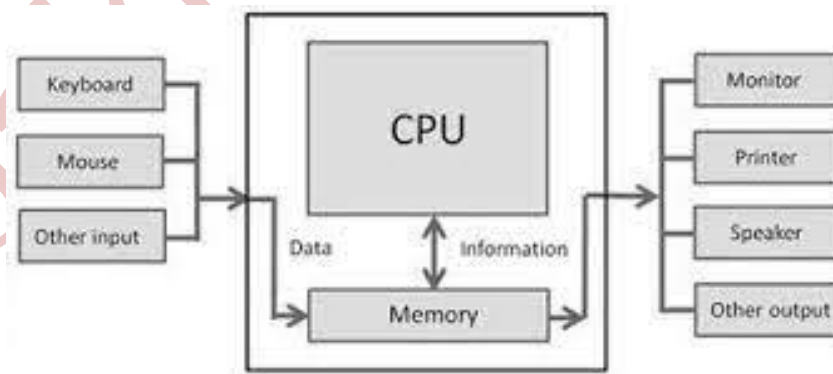


11- Digitizer

Is a hardware device that receives analog information, such as sound or light, and records it digitally. The information is stored in a file on a computing device.

* This process called digitization.

For example, a digital camera is a digitizer. Light enters through the camera lens, and the hardware and software inside the camera converts that information to binary data, and stores it an image file. The user may then transfer the file to a computer, and can edit the image, print it out, or share it online.



Input output devices diagram

Main Output Devices

1-Monitor

Display texts, graphics, images, forms and so on.



There are many monitors type:

*Traditional computer monitor

They are similar to old televisions in size. The disadvantages of the traditional monitors they are heavy and take space on the computer desk.

*Flat-Panel display

Are thinner and require less power to operate. However, they are expensive.

*Projector

Connect to the computer to display outputs on large boards. They used in lectures, projects, business and presentations.

2. Speakers

Connects to a computer to generate sound.



3. Printers

Accepts text and graphic output from a computer and transfers the information to paper.



Some devices are both input and output devices such as touch screen and compact disk (CD).



What is a compact disc (CD)?

A compact disc is a portable storage medium that can record, store and play back audio, video and other data in digital form.