

## TOPIC: Input Devices

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### Lesson Objectives

By the end of this lesson, students should be able to:

- Clearly **define input devices**
  - Identify **various examples of input devices**
  - Demonstrate how to **use the keyboard and mouse** properly
  - Compare the **mouse and keyboard** in terms of functions and usage
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### 1. Meaning of Input Devices

#### Definition:

An **Input Device** is any **hardware device** that is used to **enter data or instructions into a computer system**.

Input devices act as **communication bridges** between humans and computers.

Without input devices, computers cannot receive information to process.

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#### Why Are Input Devices Important?

- They allow users to **control computers**.
  - They provide a way to **feed data into the system** (text, sound, images, commands).
  - They enable interaction with **software and applications**.
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### 2. Types and Examples of Input Devices

Device	Description	Common Uses
<b>Keyboard</b>	A set of keys for typing letters, numbers, and commands	Typing documents, entering data

Device	Description	Common Uses
Mouse	A pointing device used to select items on a screen	Navigating windows, opening files
Scanner	Converts physical documents or pictures into digital format	Saving paper photos to computer
Webcam	Captures live images and videos	Video calls, online classes
Microphone	Captures audio or sound	Recording voice, video conferencing
Joystick	Controls movement in games or simulations	Playing computer games
Light Pen	A pen-shaped input device used to draw on the screen	Design, drawing
Touchscreen	Allows users to give commands by touching the screen	Smartphones, ATMs, tablets
Barcode Reader	Scans barcodes into the system	In supermarkets for pricing
Digital Camera	Captures and inputs photos into the computer	Photography, multimedia

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### 3. Detailed Explanation of Common Input Devices

#### a) Keyboard

- **Function:**  
Used to **enter text, numbers, and instructions** into the computer.
- **Parts of the Keyboard:**

Key Type	Example	Function
Alphanumeric keys	A–Z, 0–9	For letters and numbers
Function keys	F1–F12	Perform special actions
Control keys	Ctrl, Alt, Shift	Work with other keys for commands

Key Type	Example	Function
Navigation keys	Arrows, Home, End	Move around the screen
Numeric keypad	0–9	For entering numbers quickly

- **Usage Examples:**

- Typing assignments
- Using keyboard shortcuts (e.g., **Ctrl + S** to save)
- Writing codes or programming

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## b) Mouse

- **Function:**

Moves the **pointer or cursor** on the computer screen to select items.

- **Parts of a Mouse:**

Part	Function
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**Left Button** Selects or opens items

**Right Button** Opens additional options (context menu)

**Scroll Wheel** Scrolls up and down pages

- **Usage Examples:**

- Opening files or applications
- Highlighting text
- Navigating web pages

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## c) Scanner

- **Function:**

Converts **paper documents or photos into digital form.**

- **Common Types of Scanners:**

Type	Description
<b>Flatbed Scanner</b>	A scanner with a glass surface like a photocopier
<b>Handheld Scanner</b>	Small, portable, moved over the document
<b>Barcode Scanner</b>	Reads barcodes (in stores and supermarkets)

- **Usage Examples:**
    - Scanning school notes into PDF
    - Scanning pictures for digital albums
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#### d) Webcam

- **Function:**  
Captures **live video and pictures**.
  - **Usage Examples:**
    - Online classes (e.g., Zoom, Google Meet)
    - Taking digital photographs
    - Video recording for presentations
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#### e) Microphone

- **Function:**  
Captures **audio or voice**.
  - **Usage Examples:**
    - Voice recording
    - Video conferencing
    - Using voice assistants (e.g., Siri, Google Assistant)
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#### f) Touchscreen

- **Function:**  
Acts as both **input** (when you touch) and **output** (displays data).
  - **Usage Examples:**
    - Operating smartphones and tablets
    - Using ATMs
    - Navigating POS systems
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## 4. Demonstration of Mouse and Keyboard Usage

### How to Use a Keyboard

- Place your fingers on the **home row keys**:  
**Left hand:** A, S, D, F  
**Right hand:** J, K, L, ;
  - Use **Enter** to move to a new line
  - Use **Space Bar** to separate words
  - Use **Backspace** to delete text
  - Practice using **Shift** for capital letters
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### How to Use a Mouse

Action	Result
<b>Move the mouse</b>	Moves the pointer on the screen
<b>Left Click</b>	Selects or opens files
<b>Double Click</b>	Opens folders or programs quickly
<b>Right Click</b>	Opens menu options
<b>Scroll Wheel</b>	Scrolls up or down in documents or web pages

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## 5. Comparison Between Mouse and Keyboard

Feature	Mouse	Keyboard
Purpose	Pointing, selecting, dragging	Typing, entering commands
Input Type	Visual and movement-based	Text and symbol-based
Speed	Faster for navigation	Faster for writing
Common Use	Opening and closing files	Typing assignments or emails
Examples of Use	Drawing with software	Writing reports

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## 6. Importance of Input Devices

- They make it possible to **interact with the computer**
  - Input devices help in **data entry and control**
  - Without them, a computer cannot **receive instructions**
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## 7. Real-Life Applications

Activity	Input Device Used
Writing a letter	Keyboard
Playing a computer game	Joystick / Mouse
Video call with a friend	Webcam & Microphone
Paying at a supermarket	Barcode Scanner
Using a phone or ATM	Touchscreen

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## 8. Summary of Key Points

- **Input Devices** allow users to **send data into computers**
- Examples include: **keyboard, mouse, scanner, webcam, microphone, joystick, touchscreen, barcode reader**
- The **mouse** is for pointing and clicking, the **keyboard** is for typing

- Input devices are essential for **interacting with computer systems**