Light Pen

53 24 25 26 27 28 29 16 17 18 19 20 21 22 SI PLEL ZI LI OL 6 SHIMIWS

- It is a pointing device,
- Used to select a displayed menu option on the CRT.
- · It is a photosensitive perlike device.
- · When the tip touches the screen, its photocell "
 sensing element detects the light coming
 from the screen of the corresponding signals are set
 to the processor. to the processor
- The user indicates his choice by touching light a per against a desired description of the meru.

 Nostly

 Handheld devices tike use a per for date input

- . The pen (or called a stylus) is holded in our hand & write on a special pad og directly on the
- . It is also a pointing device.
- . It provides a handy way to extent tent wito the computer for word processing. So it is very since it can be used for hard writing recognition.

AC YEDNOM

. Accept input by allowing the user to place a figurtip derictly on the computer scen. eg: well-sinted for simple applications, such as ATM (automated teller machines) or public information kiosks. [Generally small booths set up in high traffic areas] 10 x 90 AM (690-262)

which is sensitive to user's touch.

· Many techniques have been used to make the screen

sensitive to touch.

i) Compacitive screen - It can sense changes in apacitance when of where the user touches the screen.

ii) Infrared screens employ light-emitting diodes of photo detector cells.

when the user touches the screen, some light beams are interrupted of the computer then senses the position of the furger.

iii) pressure - sensitive screens - uses a sheet of

Mylar, containing nows of invisible wires

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when the user applies pressure on the saw SE BE LE DE SI DE EE THE EE Wires at that point make confact p a circuit is closed. This is sensed of 9102 8380100 fed to the computer.

Joystick, Pointing Stick of Track Pads

- . It is a pointing device.
- · Used to move the cursos position on a CRT screen
- It's function is similar to that of a mouse.
- · A joystick is a stick which has spherical ball" at its lowerend as well as at its upper end.
- · The lower spherical ball moves in a socket.
- . The joystick can be moved right pr left, forward on backward.
- . The electronic circuity inside the joystick detects of measures the displacement of the joystick from" its central position; the information is sent to the processon.

Eraser on Pointing Stick

· It is a pointing device. It is used on laptops" EN HOOM (120-562) were there is no space for conventional di reput mouse. Il looks like a pencil 9102

- · It is embedded among 6, H and B keys on a keyboard.
- · when a finger applies lateral pressure to the eraser, the pressure is passed on to the 4 force-sensing resistors employed to sense up, down of sideway forces.

Track Pads (Also called a touch pad).

One of the latest pointing device.

- · It looks like a small , græy window , about 2 inches wide.
- · hike mouse (mice), trackpads usually are separate from the keyboard in disktop computers.
- · Truck pads include 2 or 3 buttons that performs the same functions as mouse buttons.

Pointing stick [conts...]

o Many postable computers now feature a small joystick positioned near the middle of the key board typically but the 61 f H keys. The joystick is controlled with either forefriger, of it controls the movement of the pointer on screen. Because users do not have to take their hands off the keyboard to use this device, they repsiny to the can save a great deal of time of OZ effort.

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