Five Pen Computer Technology

Akash Kujur[1] Rahul Kumar Chawda[2]
[2]Assistant Professor
[1,2]Department of Computer Science
[1,2]Kalinga University, Naya Raipur, Raipur, Chhattisgarh 492101, India

Abstract— Five pen PC innovation is only the new investigation. Which is creating by Nippon Electric Company Enterprise. Five pen PC innovation is an after five capacities bundle including: CPU pen, Virtual console, Visual yield, Camera, Communication pen. Five pen PC innovation are associated with one another through a remote innovation. The entirety set is likewise associated with the Internet through the cell phone work. This individual device in a pen style empowers the possible inescapable registering. Truth be told, nobody anticipates a lot of activity on 802.11n establishments until the center of 2008.

Keywords: Communication Pen, Bluetooth, Virtual Console, CPU Pen

I. INTRODUCTION

Correspondence Technology is changing radically in the universe of most recent advances. PC is a significant gadget of correspondence utilized in todays world. Since the time PC has been made researchers and architects have been having a go at making it increasingly concise. Accordingly we can appreciate different offices gave by the PCs regardless of whether it is Personal Computer or Laptops. These days, Frameworks are changing from to PCs to portable gadgets like tablets and cell phones. It is in this setting Pen Computers come into lime light. These are PCs in the size of various pens each having its very own component furthermore, when joined together give us the utilization of a full-create PC. It is a PC in a different little parts and the size is of a pen. The screen and console are for all intents and purposes anticipated to the surface.
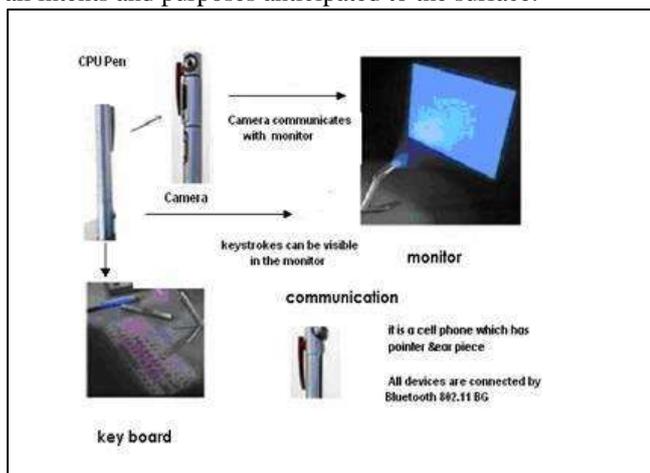

Fig. 1: Five pen computer technology

II. COMPONENTS

It includes 5 pens which serve following functions
1) CPU Pen
2) Communication Pen
3) Virtual keyboard
4) Projector Pen
5) Digital Camera

1) CPU pen which is known as figuring motor. The registering motor is installed with a double center processor also, takes a shot at windows working framework. The focal handling unit is a piece of a PC that forms and moves PC directions. The focal preparing unit performs essential arithmetical sensible and info/yield operations.There is an inbuilt windows working framework preloaded in the pen. The working framework can't be changed.[3]

Fig. 2: CPU Pen

2) Communication Pen The working framework is associated with Cell telephone, pressure delicate, pointer and earpiece, pointing gadget Correspondence Pen. The segment gives the office to speak with all the pens. The pen has inbuilt versatile capacities which empowers to associate with different gadgets. The pen associated through web. The pens can be associated through Bluetooth, Wifi and Cellular which are made little furthermore, kept in a little pen like device.The client can communicate with the data which is anticipated through projector pen.[3]

Fig. 3: Communication Pen

3) Virtual Keyboard Virtual console extends the virtual QWERTY console through laser pillar. The virtual console pen capacities same as the LED projector pen. The laser is anticipated through laser console on a surface which is a QWERTY console. It produces a full size console that is associated to PC. The laser

projection investigations the directions of the area that we are composing. Virtual console is a programming segment which permits client to type the characters. It very well may be worked through various info gadgets which incorporates contact screen, mouse, console./Virtual Console Pen.[1]Features of Virtual Keyboard

- Connection: The power of the virtual console settings can be changed by our requirements.
- Sound: The optical recognination instrument serves to venture pictures while creating the tapping sound. VKB utilizes unique mark developments to record keystrokes. The picture anticipated is of light, it totally vanishes at the point when not being used.
- Timeouts: The virtual consoles organizes gets break when not being used to spare the battery life.
- Sensitivity: The affectability of the console can be balanced.
- Auto-rehash: The auto rehash permits the VKB to consequently rehash the key based boundaries.
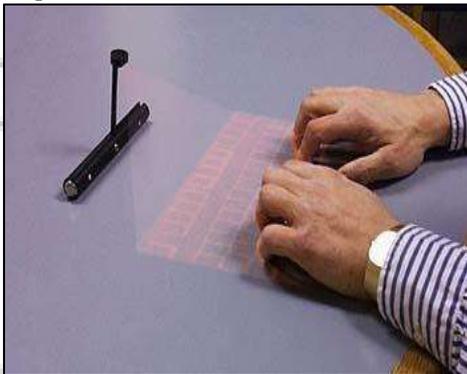- Compatible: It is easy to use so no training is required to work the VKB.

Fig. 4: Virtual Keyboard Pen

4) Projector Pen The LED projector, extends the substance to show on the screen. The size of the projection on the screen is of an A4 size paper. The screen goal of a projection is 1024 X 768. This gives more screen clearity. A video projector is a gadget which acknowledges the video signals and undertakings the picture on the screen with the assistance of focal point signal. All the video projectors can address bends and haziness through manual settings. The projectors are utilized in the meetings also, theaters.[2]

Fig. 5: LED Projector

5) Advanced Camera Advanced camera can be utilized as a web camera for video recording and gathering. It can assist with thinking about the encompassing environment and gathering correspondence with a wide point camera. The computerized camera needs to initially record the picture and afterward store it in the memory gadget to show on the screen. The computerized camera can't straightforwardly show the recorded pictures first it must be put away in the memory. We can trim the photos and perform picture altering. A few cameras have GPS and can click Geo Tagged photos. Five pen PC innovation is a work in progress by NEC Coporation. We can discover Bluetooth and extraordinary peripherals for interconnecting distinctive devices.[2]

Fig. 6: Digital Web Camera

III. KINDS OF LED DISPLAY

There are two kinds of LED boards:
1) Conventional(using discrete LEDs) and
2) Surface-mounted gadget (SMD) boards.

The screens utilized for indoor reason utilizes SMD Technology furthermore, the pattern is reaching out in the outside market. A SMD pixel contains the RGB diodes associated in a solitary screen. Every diode has a pinhead and associated extremely close. The review separation is decreased by 25% from the discrete diode with same screen goal.

IV. BATTERY

The battery is totally convenient for the PC. The battery is little and works for longer term. The battery life is of 6+ and the battery can remain upto fourteen days in stand by mode. The pen can deliver both showcase and console on any level surface and can do capacities same as a PC can perform.

1) Focal points
- The gadget is convenient It utilizes wifi.
- The battery is versatile.
- The innovation can be contacted and feel. Wireless innovation is bolstered.

2) Impediments
- Due the utilization of remote innovation it has confinements with the range.
- It is exorbitant.
- If one of the segment gets lost the gadget is of no utilization.
- The projection surface must be plain.

V. CONCLUSION

Consistent headway in innovations has realized numerous adjustments in the field of registering and correspondence. The association between the most recent innovation and human has been envisioned as a pen. The structure idea here utilizes five unique pens to make a PC. One pen capacities as a camera, another pen as processor, one anticipates the yield including the presentation, another pen makes a virtual console and the fifth pen is a communicator which capacities as a cell phone The whole set of pen has a battery which is battery-powered and has a capacity gadget and all the pens can be associated through remote association. In this way, P-ISM gives a decent outline of what's on the horizon in the field of innovation.

VI. FUTURE SCOPE

The Five pen PC innovation venture began in the year 2003.However, the data about its discharge isn't yet made open. Regardless of whether it will be accessible for the open use is as yet an inquiry, as a result of its exorbitant cost of 30,000$. The five pen PC innovation created by the organization demonstrates that such a confused innovation is possible, yet because of the absence of data about its ongoing advancements, it is muddled what the organization's expectations are about this innovation.

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