

EBall Technology

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Abstract—A new idea of laptop is coming back currently that's E-Ball idea laptop. The idea of E-ball laptop is introduced by the Apostol Tnokovski. This is often the littlest laptop among all the laptops and desktops. It having all the options and therefore the components sort of an ancient laptop-ball laptop is intended to be placed on 2 stands which may be opens and closed by pressing and holding a selected button on either side. E-ball laptop doesn't need any external supply for the show purpose. It's inherent projector that may be pop by pressing a button focus the screen on the wall which may be adjusted with the navigation keys. E-ball laptop having a 6-inch diameter sphere and therefore the 120mm × 120mm motherboard. This laptop is intended just for Microsoft Windows software package. E-ball has feature sort of a twin core processor, 250-500 GB disk drive, 2GB of RAM, Integrated graphic card, sound card.

Keywords— EBall Technology, External show, Projector, Sphere PC, Umbrella

I. INTRODUCTION

The idea of E-ball laptop is introduced by the Apostol Tnokovski. this is often sphere formed laptop. this is often the littlest laptop among all the laptops and desktops. It having all the options and also the components sort of a ancient laptop. E-ball laptop is intended to be placed on 2 stands which may be opens and closed by pressing and holding a selected button on both sides. E-ball laptop doesn't need any external supply for the show purpose. it's integral projector that may be pop by pressing a button focus the screen on the wall which may be adjusted with the navigation keys. E-ball laptop having a 6-inch diameter sphere and also the 120mm × 120mm motherboard. This laptop is intended just for Microsoft Windows software. E-ball has feature sort of a twin core processor, 250-500 GB disk drive, 2GB of RAM, Integrated graphic card, sound card. 2x50 W speakers, DVD recorder, wireless optical mouse, optical maser keyboard, computer network and WLAN card, Web camera, and integrated alphanumeric display project.

1.1 RELATED WORK

The E-ball could be a new thought of computer that having the littlest size computer among all the laptops, and also the desktops. This computer is intended specified it's mounted between the 2 stands. The user is open this computer by pressing and holding the buttons that are placed at each aspect of the stands. Ones the computer is activate user will connect the optical mouse to the current computer by pressing the correct button of the mouse as per her demand. The E-ball computer features an optical maser keyboard shown in fig.1 This keyboard is visible only if the computer is in operating condition. The keyboard isn't physically gift it's taken by lasers that seems once press the button thereon. The optical maser keyboard acknowledges the user fingers with the assistance of associate IR sensors once the user writing at a specific place. E-Ball computer haven't got any external show unit, it's a button once this button is pressing a projector can pop and it focus the screen on the wall which may be adjusted victimization navigation keys. after we are operating in situ wherever no projector is obtainable then we are able to create use of a paper sheet as a screen. This technology supports the paper sheet and may be act as a show unit in order that we are able to simply perform the add the absence of external show unit. The E-ball computer supports all the windows software. The work with this computer is straightforward once the user creating a presentation, observation a flick with family and chatting with the friend on internet.

II.WORKING OF E-BALL

E-Ball is meant such it may be mounted on 2 stands. E-Ball has 2 buttons on both sides and therefore the users will merely open this laptop by pressing and holding them at a time. Once you open the stand and switch the E-Ball on, you'll be able to connect the optical mouse from the body of the E-ball by merely pressing the connecting button of mouse. This technology incorporates a button that enables its optical device keyboard to induce activated. E Ball laptop haven't got any external show unit, it's a button once this button is pressing a projector can pop and it focus the screen on the wall which might be adjusted victimization navigation keys. after we area unit operating in situ wherever no projector is offered then we will build use of a paper sheet as a screen.



FIGURE 1:Working of EBall

The paper sheet holder is placed at the rear panel. The holder is opened by pressing it within the lower a part of computer. The E-Ball computer supports a paper holder and therefore the paper sheet on the holder may act sort of a screen wherever you'll watch movies or perform the works. E-Ball conception computer contains an optical device keyboard that's visible once the computer is in operating. The keyboard isn't physically gift it's taken by lasers that seem once press the buttons thereon. This acknowledges your fingers with the assistance of Associate in Nursing IR sensing element at the time after you are typewriting at a selected place. The software package interface of E-Ball conception computer is most unreal with icons that may be remembered simply that support all style of windows software system. E-Ball computer work terribly straightforward whereas you're creating video shows, listening music, observation movies, and chatting on information superhighway. There are 5 easy steps to ON computer that are you'll use-press and hold the facility button for five second, alter the alphanumeric display Projector and detach the optical mouse. Activate the virtual mouse and do no matter you wish.

2.1 DISPLAY UNIT:

Devoid of any external show unit, it's a button, on pressing pops up a projector that focuses the screen on the wall. For adjustment operations their square measure navigation keys additionally there.

2.2PAPER SHEET HOLDER:

It is at the rear of laptop and is employed once there's the absence of a wall for projection. The lower half ought to be press for gap the paper sheet holder. By pressing and holding the paper sheet holder on/off button for 5 seconds the projector can recur. It's divided into 3 items like associate degree umbrella when barging in, and it show desktop on the paper sheet. It will act as a supply for shows or looking at shows and films or chatting on net.

2.3 LASER KEYBOARD:

Laser keyboard is predicated on optical maser ray's technique. It deals with fingers with associate degree aid of associate degree IR device once writing at a particular place. it's a careless device.

2.4 OPTICAL MOUSE:

It is a detachable optical mouse that depends on the optical maser ray technique. It utilizes light-emitting diodes or optical maser as a way of pursuit movement of mouse. Like associate degree optical mouse doesn't contain mobile elements, it doesn't need improvement.

III. OPTIONS OF E-BALL

The options of E-Ball area unit.

3.1 PROCESSOR

Intel Core may be a name. it's used for numerous mid-ranges to high-end client and business chip that area unit created by Intel. The recently lineup of Core processors includes the subsequent processors:

- 3.1.1** Intel Core i7 Intel Core i5
- 3.1.2** Intel Core i3 Intel Core
- 3.1.3** Intel Core Intel Core two couple
- 3.1.4** Intel Core two Solo Intel Core Two Quad
- 3.1.5** The e-ball laptop primarily uses Intel core two couple processor

3.2 RAM

RAM is stands for Random Access memory. It gets the word random as a result of the knowledge will be accessed in non-sequential order. although the information itself is keep, it may well be anyplace within the quantity of RAM accessible. RAM is live in "bits", and eight bits adequate one computer memory unit. A KB is adequate 1024 bits, and a MB is adequate 1024 kilobytes. The E-BALL laptop uses two GB of RAM. It contains 2 forms of RAM. they're SRAM and DRAM. SRAM doesn't need external refresh electronic equipment. SRAM is quicker than DRAM. SRAM is additional power economical once idle. SRAM is many times dearer than DRAM

3.3 HARD DRIVE

Hard drive may be a storage device. Drive is nonvolatile in nature. It consists of metal plate lined with chemical compound which will be magnetized to represents knowledge. knowledge will directly access from drive. The E-ball laptop principally consists of 350-500GB drive.

3.4GRAPHIC & SOUND CARD

A video card, show card, graphics card and graphics adapter area growth card that generates output pictures to the show. Most video cards provide numerous functions like accelerated rendering of 3D scenes and 2nd graphics, MPEG 2/MPEG-4 decryption, output, or the power to attach multiple monitors. alternative current high-performance video cards also are used for additional diagrammatically stringent functions like laptop games. Video hardware is usually integrated into them alternative board, all fashionable motherboards offer growth ports to that a video card will be hooked up. during this style it's typically named as a video controller, a video card, graphics card, or graphics adapter is AN growth card controller.

3.5HERE IS NOT ANY WALL:

Suppose, there's no shut in the place wherever you're employed on E-Ball, you'll be able to use a paper sheet provided to the laptop because the screen. once the projector is taken off, the paper sheet holder is divided into 3 items like AN umbrella and you'll be able to see the desktop on the paper sheet. you'll be able to additionally watch movies, build presentation or the other factor on the paper sheet that's control by the paper holder of the E-Ball laptop.

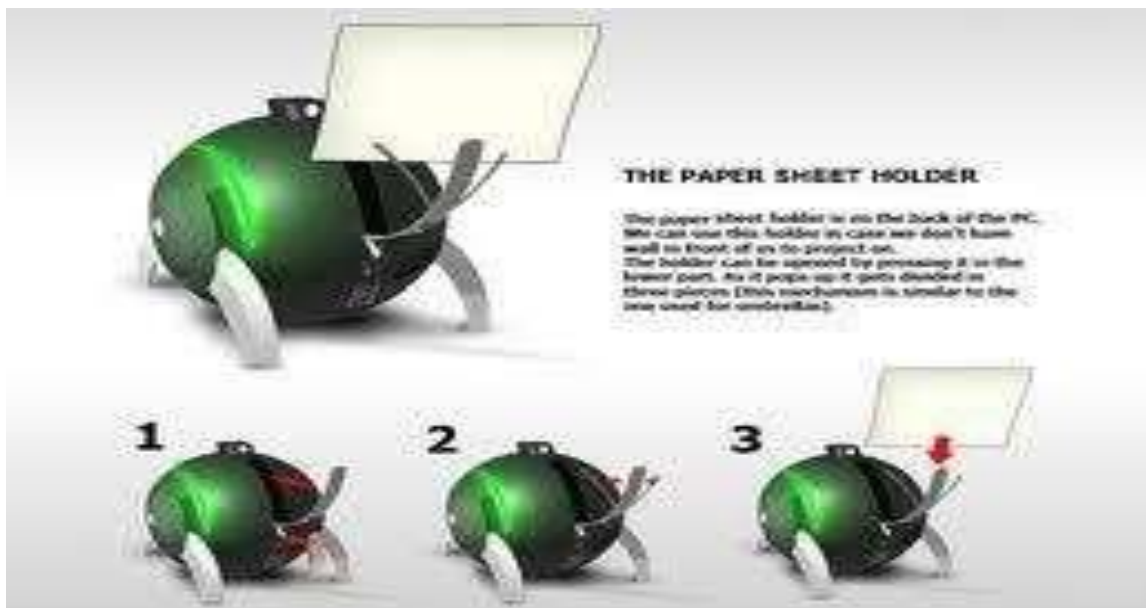


FIGURE 3: SCENARIO IN CASE OF NO WALL PRESENT

IV. ADVANTAGES OF E-BALL

- 4.1 It has large memory i.e.5 GB.
- 4.2 It is useful for making video presentation.
- 4.3 It supports user defined keyboard layouts.
- 4.4 It is efficient.
- 4.5 It is very easy to use and understand.
- 4.6 It is more secure than other computers due to its shape.

V. DISADVANTAGES

- 5.1 Normal operating systems cannot work with these computers.
- 5.2 Cost of E-BALL is very high.
- 5.3 It is difficult to understand and track if any problems occur in hardware part.

VI. CONCLUSIONS

As the technology develop, the scale of pc become smaller and smaller. though the scale becomes smaller and smaller, the options of computers square measure will increase. the pc becomes a lot of economical and convenient to the users. E-Ball is taken into account to be the eighth surprise that has the potential to reform the globe with its wonderful options. As evolution is finished in technology, it's simple to use anyone.

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