

TECHNICAL DESCRIPTION OF A COMPUTER MOUSE



Figure 1. Dimensions of a computer mouse

Compact Optimal Mouse 500 is an external computer hardware device. The mouse is white in colour and basically curved in shape. The dimensions of this mouse are 3.44" (87.4mm) in length and 1.88" (47.8mm) in height. The optical mouse consists of four parts: (a) the top casing, containing the right-click cover, the left-click cover and the scroll wheel, (b) the bottom casing, containing the small sensor, (c) the internal circuit board, and (d) the cord and the plug.

Top Casing



Figure 2. Top view of a computer mouse

The top casing of the Compact Optical Mouse 500 is made of hard and curved sheet of plastic that can protect the inside parts of the mouse. The top casing consists of the right-click cover, the left-click cover and the scroll wheel. The right-click cover and the left-click cover are located at the front side on the top casing and it is made of a curved piece of plastic. The left-click cover is a mirror image of the right-click cover. The scroll wheel is located between the right-click cover and the left-click cover that can be easily clicking and scroll up and down.

Bottom Casing

The surface of the bottom casing is flat and it is a hard shell of plastic. The bottom casing consists of a small sensor. The small sensor will detect the mouse movement and can control the motion of the pointer on the computer screen.

Internal Circuit Board



Figure 4. Typical internal circuit board of a mouse

The internal circuit board is an electronic component made of a copper sheet. It is located inside the optical mouse and it is protected by the cover of the mouse. When the user makes a clicking or scrolling the movement, the internal circuit board will collect and translate the information.

Cord and Plug

The cord is a wire sealed by plastic sheath that will send the information from the mouse straight to the computer. The plug is made of plastic and metal and it is located at the end of the cord. At the end of the plug is rectangle piece made of metal and its function is to connect the mouse to the computer.



Figure 5. Mouse with USB cable

Conclusion

The Compact Optical Mouse 500 is a simple device that is useful and interacting with the computer. It is smooth and accurate performance. It is also easy to use and set up because no software to install and no feature setup required.

References

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