

Rulo bilgisayar

Yazar Kamil DEMİRTAŞ

Perşembe, 22 Ekim 2009 15:35

Hao Hua tarafından tasarlanan dizüstü bilgisayar konsepti, eski parşömenlerden ilham alıyor.



Hao Hua adlı tasarımcının konsept dizüstü bilgisayarı D-Roll, rulo haline getirilebilen, taşınması çok kolay görülen bir tasarım. Eski parşömenleri ve sırtta taşınan resim rulolarını hatırlatan bu konsept, alışılmış köşeli dizüstü bilgisayarlardan farklı bir görüntüye sahip.

Ekranı, klavyesi ve faresi iç içe geçerek rulo haline getirilebilecek şekilde tasarlanan D-Roll, askıları sayesinde elde ya da omuzda taşınabiliyor. Askılarında bulunan 4 adet USB çıkışı ve ayrılabilen internet kamerasına sahip olan bu bilgisayar, kapalıyken bile işlevsel kalıyor.

Büyük resimleri için makalenin devamını okuyunuz.

DESIGN

DESIGN STATEMENT

D-roll (Digital roll) is a next generation laptop design. It is distinctive from traditional laptop in both form and function. Instead of the traditional "book" looking, this laptop is in the shape of a long tube or roll. The inspiration comes from the storage tube used by artists for storing large drawings.



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COOLING SYSTEM

New Cooling System

Cooling is always an issue in traditional laptops.

D-roll has an innovative cooling system which is able to create air flow to cool the computer inside out.

By taking advantage of air circulation, the cooling system can exhaust the heat from inside to outside efficiently.

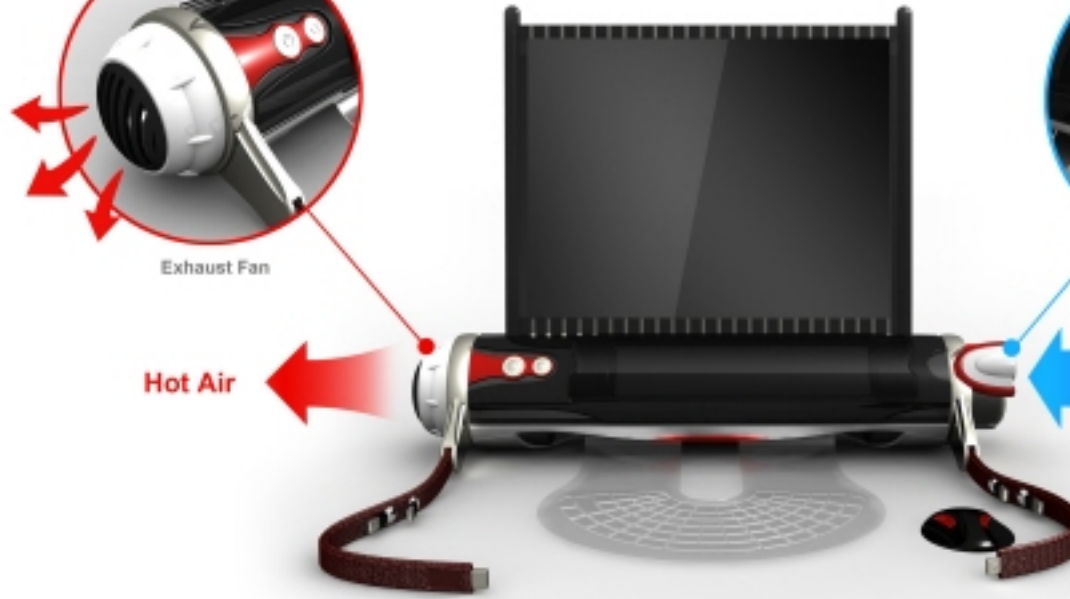
DESIGN STATEMENT

The main body of D-roll is in the form of a tube which is hollow in the middle. There are heat vents hidden in the inside wall of the tube. On the right end of the tube is an opening when the laptop is in use. Air can come in through this opening. On the left end of the tube is an exhaust fan. It helps to blow heated air out. So the cooling process is as follows: Air comes in from the opening on the left. It takes heat from the heat vents and flows out from exhaust fan on the right end of the tube.



Exhaust Fan

Hot Air



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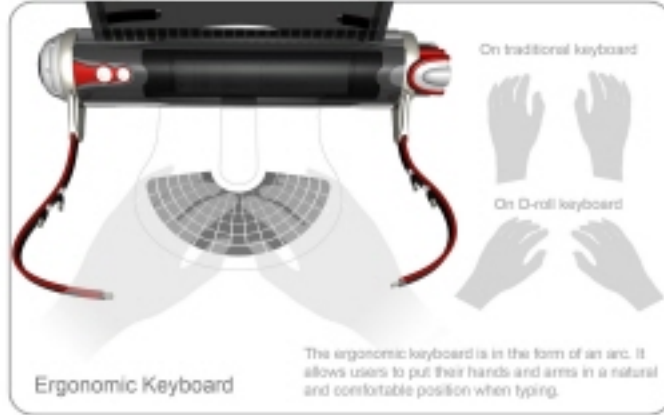


DESIGN STATEMENT

In concept development, I did a lot of sketches to explore new forms and functionality. As shown in the sketches, the form of the laptop has been developed a lot from the very beginning. For example, the shape of the keyboard was square at first. And there was no small screen at the beginning.



FUNCTION



DESIGN STATEMENT

The ergonomic keyboard in the form of an arc is comfortable to use. USB outlets on traditional laptops are usually on the back and too close to each other. But on D-roll, the outlets on the strap are separated and more accessible. Usually, a big pack is needed to carry the laptop. But by using the strap on the laptop, the user could carry D-roll on shoulder. There is no need of the extra backpack. It makes traveling with laptop much easier.



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FUNCTION



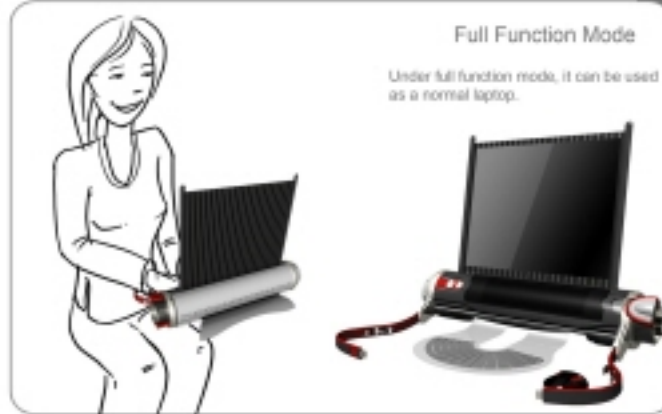
Email Mode



Video Camera

DESIGN STATEMENT

D-roll is multi-functional computer. There two working modes on this laptop: full function mode and email mode. Under the full function mode, D-roll is completely unfolded and all devices are turned on. Under the email function mode, the main screen is turned off and detached from the main body part. The user can turn on a smaller screen on the main body part to check emails or send messages. VC is a useful add-on for taking pictures or videos. Locking system can provide the laptop certain security.



Full Function Mode

Under full function mode, it can be used as a normal laptop.

Locking System

D-roll can be locked onto fixed seating, desk, or anything unmovable.



COMPONENTS



DESIGN STATEMENT

Instead of the traditional "book" looking, D-roll is in the shape of an artist tube. D-roll is made out of several components including the main tube part, a multi-functional strap, a flexible OLED (organic light-emitting diodes) screen, a flexible keyboard and a video camera. Distinctive design features include the flexible keyboard in an arc shape which is more ergonomic. Also, the multi-functional strap made out of fabric and flexible plastic is furnished with the USB outlets and the finger print lock.

Flexible OLED screen

VC (Video Camera)

LED screen

Power Button

Vent

Fingerprint Lock

Speaker holes

Foot

D-roll is also a foldable keyboard are able to be rolled up into the tube. And the strap becomes compact.

2. Roll up the flexible keyboard. Store it in the notch on the bottom. Then, close the door at the notch which also works as a standing feet on the back.

4. Put the mouse on as a cap of the end. And then, it is ready to go with you.