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INTRODUCTION:

- It is a computer with different look and feel.
- Surface do not have any keyboard or mouse.
- This uses a multi touch screen as user interface.
- Change an ordinary table top into a vibrant, interactive surface.
- A new way of working with computers that move beyond the traditional mouse-and-keyboard.
- It is a natural user interface.
Hardware Specification

• **Screen**: A large horizontal “Multi touch” screen, the surface can recognize objects by reading code “domino” tags infrared.

• **Infrared**: Surface uses a 850-nm light source.

• **CPU**: Core2Duo processors

• **Projector**: The surface uses DLP light engine found in many rear projection HDTV’S.
HOW THE SURFACE WORKS

- At a high level, surface uses five cameras to sense objects. This user input is then processed and the result is displayed on the surface using rear projection.

- Surface can also identify physical objects that have bar-code-like tags (Domino tag).
LED

Baffle

Diffuser

Total internal reflection

Scattered light

Acrylic pane

Source: Perceptive Pixel
KEY ATTRIBUTES

Direct Interaction

Multi User Experience

Multi Touch Contact

Object Recognition
Direct interaction:

Direct interaction means that, we can interact with the surface by using our fingers. No other input device is needed to give input. This provides a natural interface effect.
Multi user experience:

A single touch screen can support more than one user.
Each user can interact independently with the surface.
Multi touch contact:

Ordinary touch screens provide only single touch sensing.
In surface more then one touch can be recognized at the same time.
Object recognition:

Object recognition is done in the surface by using special bar codes called Domino tags.

These are infrared sensitive patterns which are read by the infrared sensing cameras inside the surface.
Applications

- Digital photo handling with finger tips.
- Instantly compares while shopping.
- Interaction with digital content by share, drag and drop digital images.
- Surface restaurant.
- Quickly browse through play list entries.
- Easy to take complex shopping decisions.
FUTURE APPLICATIONS

- It becomes a medium to contact.
- It helps the people to communicate from different place.
- Which gives the lively experience while communicating.
- It make the work easy and comfortable.
'A computer on every desktop'
Now we say,
'Every desktop will be a computer'.
Thank You!
Any Quires...?