No mouse  no key board

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OVERVIEW

WHAT IS SURFACE COMPUTING

UNIQUE CHARACTERISTICS OF ‘SURFACE COMPUTING’

- Direct Interaction
- Multi-User Experience
- Multi-touch contact
- Object recognition

Hardware

REQUIREMENT SPECIFICATIONS

ADVANTAGES

LIMITATIONS

FUTURE SYSTEM

REFERENCES

ANY QUERIES?
WHAT IS SURFACE COMPUTING

A new way of working with computers that moves beyond the traditional mouse and keyboard experience.

It is a natural interface.

Touch based Graphical User interface, recognizes real world objects.
UNIQUE CHARACTERISTICS OF ‘SURFACE COMPUTING’

Multi-user Experience

Direct Interaction

Multi-touch Contact

Object Recognition
DIRECT INTERACTION

No mouse, no keyboard. Users can grab the information with their hands and interact with the content through touch and gestures.

Provides natural interface effect.
A single touch screen can support more than one user.

Each user can interact individually.

The horizontal factor makes it easy to gather around providing collaborative, face-face computing experience.
Multi-Touch Contact

Recognizes many points of contacts simultaneously, not just one finger in case of touch screen, but more than one item at once.
Object Recognition

Object recognition is done using Special bar codes called Domino Tags.

Users can place Objects on display to get different responses.

Transfer digital content.
HARDWARE

CPU

Haga clic para modificar el estilo de texto del patrón

Segundo nivel

- Tercer nivel
  - Cuarto nivel
  - Quinto nivel

Screen

Projector

Infrared
HARDWARE SPECIFICATION

Screen: Surface can recognize by reading “coded domino tags”.
Multi-touch display
Projector: Uses DLP light engine found in many HDTV’s
Wireless communication
Infrared: Surface uses 80nm light source
Multiple infrared cameras
CPU: Core 2 duo processor, 2Gb RAM
Modified version of Windows Vista
REQUIREMENT SPECIFICATIONS

Microsoft operating system of Vista.
Intel dual core processor backed by 2GB of RAM.
256MB video card.
5 video infrared cameras.
30 inch screen 1024 x 768 resolution (sits 21 inches off ground)
DLP projector.
Advantages

Multi users collaborative efforts of user interacting

Seamless – no wires or USB ports

Instant upload/download of photos

Users have more control of technology like Ordering of food
Limitations

- Incredibly expensive
- Not Portable
- Have to be careful of table surface to not damage it
Surface computing is slowly starting to catch on and is starting to be used in real world applications and are used in
In the future, as form factors continue to evolve, surface computing will be in any number of environments – school, businesses, homes and any number of form factors – parts of the countertop, the wall or the refrigerator.

Microsoft's chairman in exclusive interview stated that surface computer technology is beginning of touch-based development and not so expensive for the end-user, and it may become even cheaper in the future. He hopes this technology's result will reach a selling price of around 1000$. 

FUTURE SYSTEM

- Segundo nivel
  - Tercer nivel
    - Cuarto nivel
    - Quinto nivel
REFERENCES

http://www.scribd.com/


http://www.microsoft.com/
CONCLUSION

A computer on every desktop
[old saying]

Surface computing says,

Every desktop is a computer
ANY QUERIES?