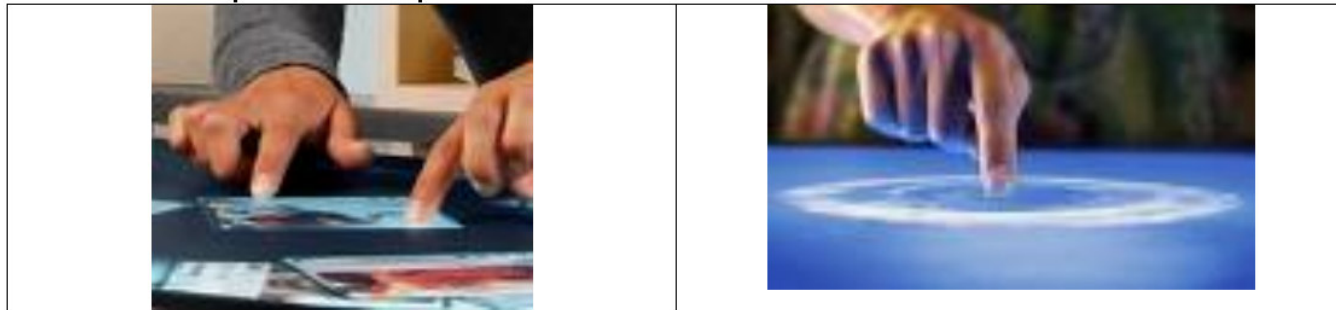


C10: Multi-Touch Display: Improvement of the Signal-to-Noise Ratio

Background:

- Multi-touch displays are an extension of touch screens
- Example: iPhone
- Microsoft has also introduced a multitouch project “Surface” which is table that records multiple contact points with the screen.



Prof. Hollan at the UCSD Cognitive Science Department is working on new multitouch displays using infrared LEDs and an acrylic plane which scatters light when touched.

C10: Multi-Touch Display: Improvement of the Signal-to-Noise Ratio

Some areas of the project include:

- Use of infrared LEDs and maximizing their signal output based
- Implementing a noise rejection algorithm with the band pass filter approach
- Image capture with a webcam
- Image processing to maximize the Signal-to-Noise ratio.

HELP:

- Project advisor:
Dr. Delson
- Course Advisor:
Prof. De Callafon

