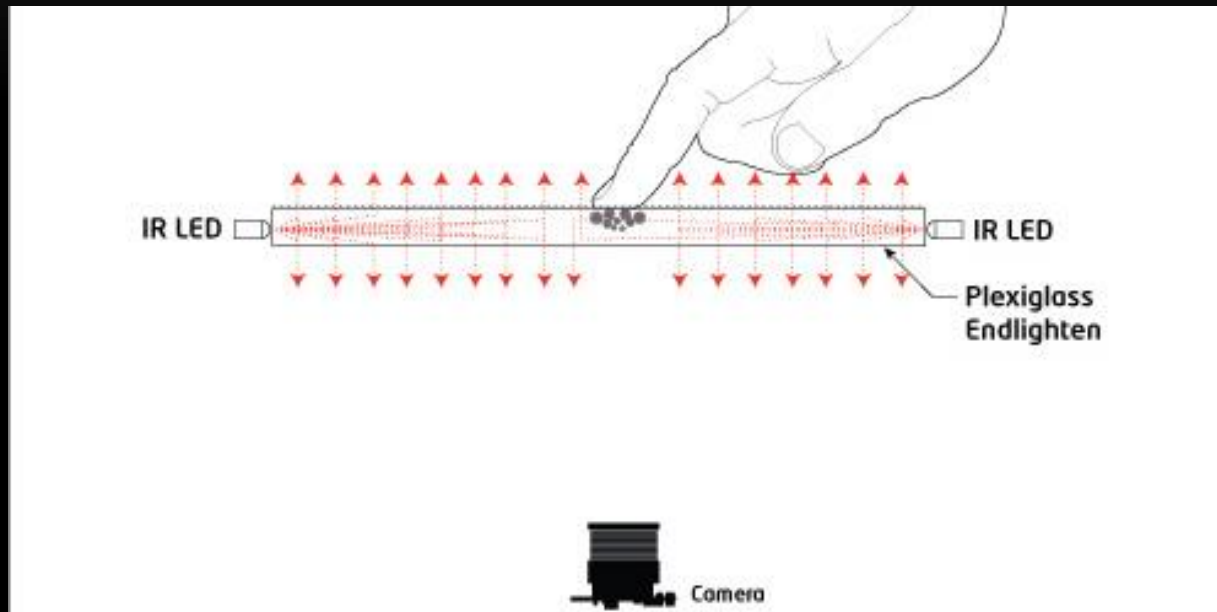# TABLE OF TOUCH TECHNOLOGIES

	Frustrated Total Internal Reflection	Diffused Illumination	Diffused Surface Illumination	Force Sensitive Resistance	Optical Imaging
Sensor	Optical	Optical	Optical	Voltage	Optical
Touch Types	Touch Only	Touch and Objects	Touch and Objects	Touch and Pressure	Touch only
Difficulty to Implement	2	3	4	1	5
Quality of Blobs	5	1	3	4	2
Scalability (Cost vs Size)	3	2	3	1	5
Cost	4	3	2	1	5

5 = Best for project, 1 = Worst for project
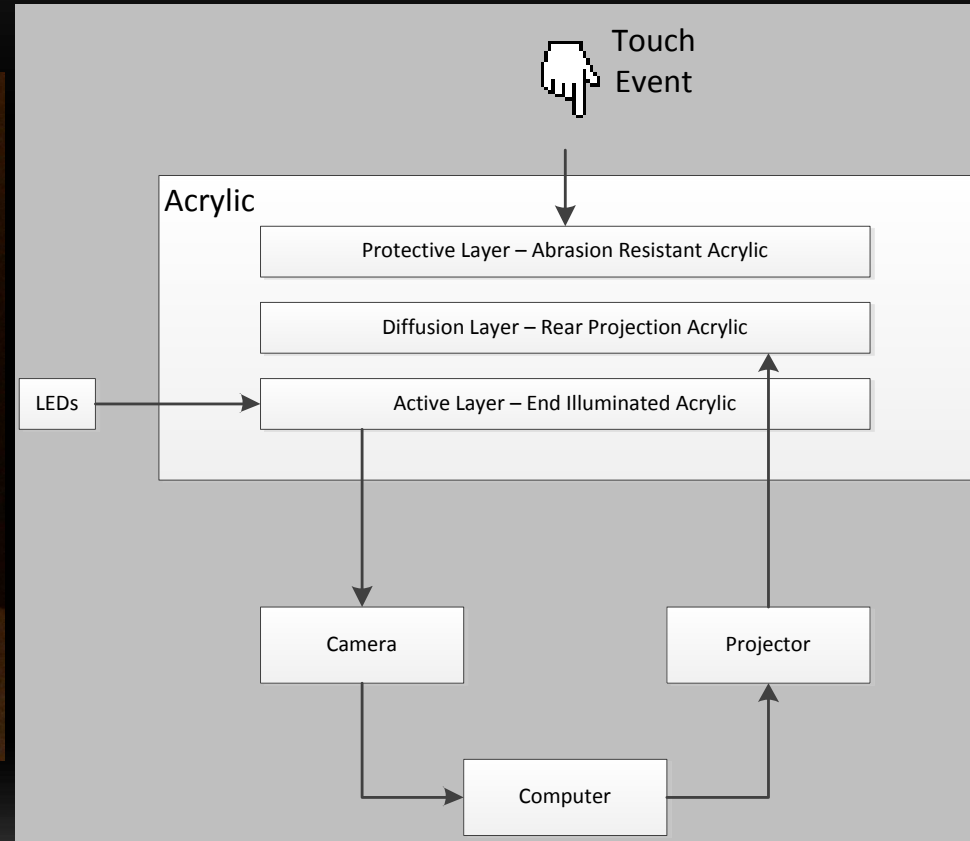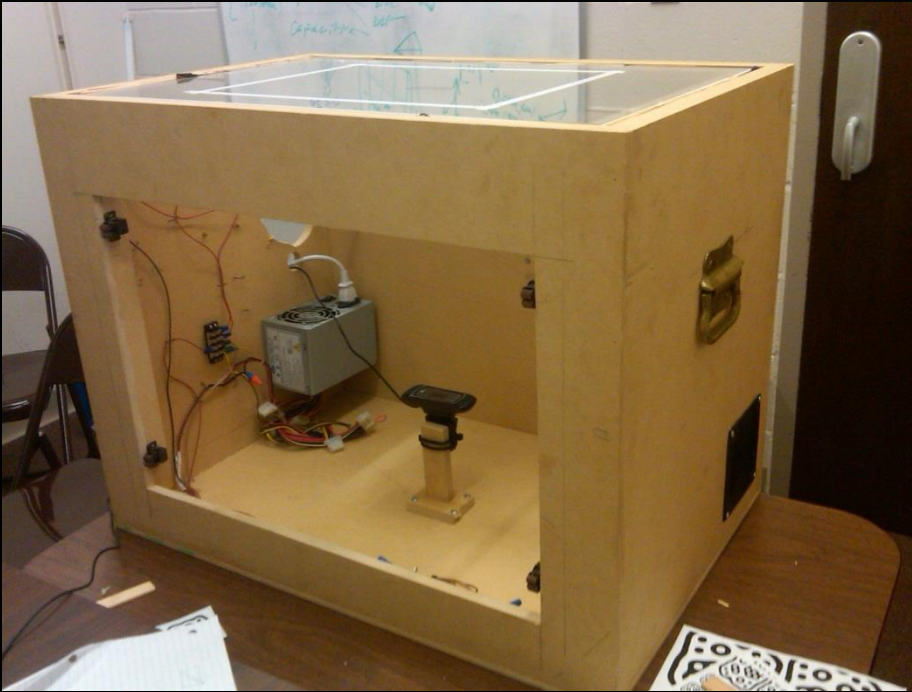
DIFFUSED SURFACE ILLUMINATION

- IR LEDs
- Camera

Acrylic:
- Active Layer
- Diffusion Layer
- Protective Layer

HARDWARE BLOCK DIAGRAM

DEVELOPMENT BOARD (PROTOTYPE)

- **Provides platform essential to test our hardware and software**

- Polished acrylic edges

  - LED light can penetrate deeper

- Slim LED wooden Frame

  - Flush fit

  - Painted white for maximum deflection

- Camera mount

  - Allows for easy configuration